Technical Area: Public Health

Technical Lead: Dr. Alvin Greenberg

WORKSHOP REQUEST

37. Please resubmit a copy of Figure 84-1 from the responses to the CEC Set One Data Request Number 84.

RESPONSE

The Applicant provided the requested figure to Dr. Greenberg via email on April 16, 2010. Because this figure was previously docketed, it has not been provided in this document.

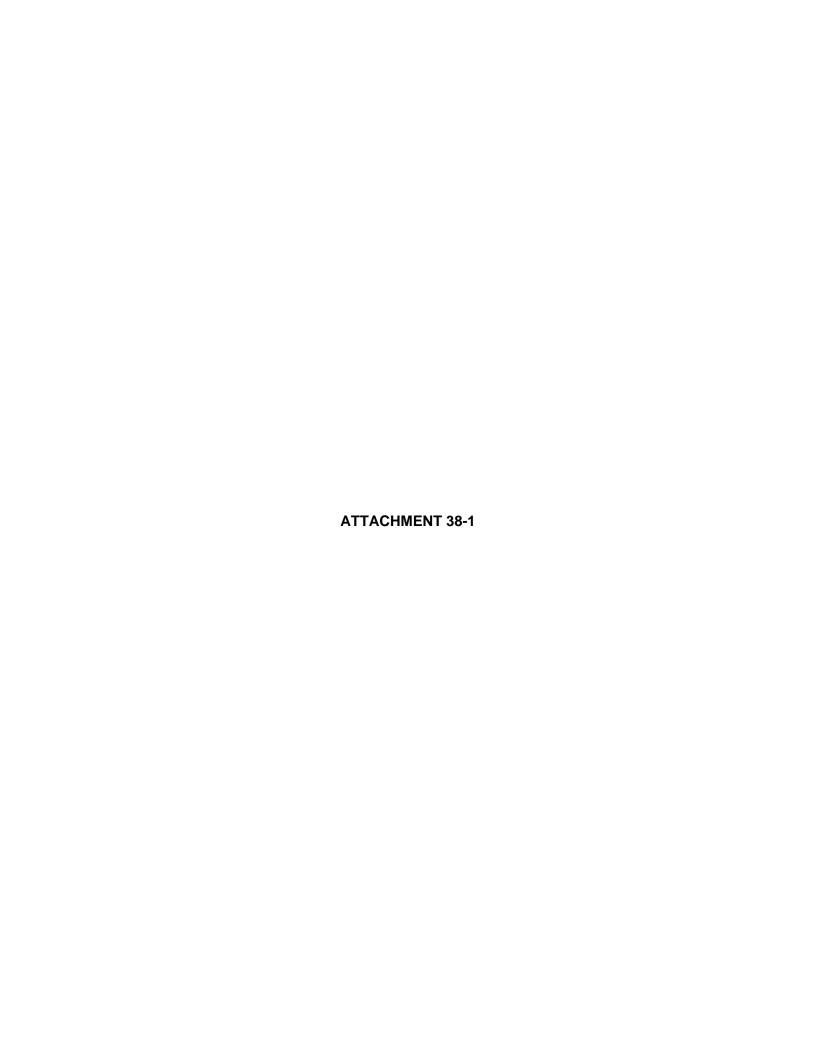
Technical Area: Waste Management **Technical Lead:** Ellie Townsend-Hough

WORKSHOP REQUEST

38. Please perform a Phase I Environmental Site Assessment on the linear routes.

RESPONSE

This Workshop Request is a follow-on request to the CEC Set One Data Request No. 117. In a subsequent communication between Rod Jones and Ellie Townsend-Hough of the CEC and the Applicant, it was agreed that a database review for the HECA Project linears would be undertaken. The review and evaluation is provided in a technical memorandum as Attachment 38-1.



INITIAL EVALUATION OF ENVIRONMENTAL DATA ALONG THE HECA PROJECT LINEARS

This report presents URS' initial evaluation of potential environmental issues and contaminated sites along the linears in the response to the California Energy Commission's Workshop Request No. 38 and subsequent follow-up conversations with Rod Jones (CEC) and Ellie Townsend-Hough (CEC).

OBJECTIVE

The objective of this evaluation was to assess the presence of significant environmental impacts from hazardous waste or contaminated sites located in close proximity to the Hydrogen Energy California (HECA) Project linears.

PROPOSED APPROACH

URS evaluated historical impacts and the potential presence of, and proximity to, contaminated sites listed on environmental databases for areas along the linears. This evaluation provides useful information on potential significant impacts. For the purposes of this evaluation, the right-of-way or alignment of the linears (as shown in Figure 1) were considered to be as follows:

- Electrical transmission lines: 175 feet wide; and
- Water, gas, and carbon dioxide lines: 50 feet wide.

The proposed HECA Well Field and the Controlled Area (shown on Figure 1) have been included in the evaluation. URS' evaluation of the crop and pesticide application data included the Project Site and the Controlled Area in addition to the linears and the proposed HECA Well Field.

The three main categories of data that were obtained and evaluated by URS are:

- 1. Historical land use information;
- 2. Potential impacts from former agricultural use; and
- 3. Potential presence of and proximity to contaminated sites listed on regulatory agency databases.

The data sources for each category are described below.

HISTORICAL LAND USE INFORMATION

URS identified current and historical land use information from the sources shown in Table 1.

Table 1
Summary of Land Use and Historical Use Data Sources

Data Source	Description of Data	Search Distance from Alignment
Assessor Parcel Data	Current parcel zoning information	Alignment Only
Historical Aerial Photographs	One photograph per decade (if available) from the present to the earliest available photograph (expected to be from the 1930s).	Alignment Only
Historical Topographic Maps	All available USGS Topographic maps available for the area.	Alignment Only
Sanborn Maps	All available Sanborn Fire Insurance maps available for the area.	Alignment Only
Note: USGS = U.S. Geologica	Survey	

Assessor Parcel Data

URS identified current land use information for the linears from the parcel maps and summarized the number of parcels intersected by the linears for each type of land use in Table 2.

Table 2
Summary of Land Uses Along the Linear Alignments

				Nun	nber of Pa	rcels		
Land Use	CO ₂	Controlled Area	Natural Gas (NG)	Potable Water/ NG	Process Water	Project Site	Transmission 1A	Transmission 1B
Farming		4		3	40	1	11	10
Grazing				1	1			
Industrial	1	2			1	2	3	2
Orchards					1		6	4
Parks/Open Space/ Recreation				1				
Public/ Quasi-Public	3	5		2	11		3	2
Residential/ Urban					4	1		
Resource Extraction	1			2				
Undeveloped	6		2	11	16		1	
Grand Total	11	11	2	20	74	4	24	18

Note:

 CO_2 = carbon dioxide

Historical Aerials, Fire Insurance, and Topographic Maps

URS conducted a review of historical aerial photographs and topographic maps for the area. Brief descriptions of significant features on the photographs are presented in Table 3. The focus of the analysis was on the specific alignment and is described in Tables 3A through 3H. Copies of the topographic maps are provided in Attachment A and copies of the historical aerial photographs are provided in Attachment B. No Sanborn Fire Insurance maps were available for the study area as shown in the Sanborn Fire Insurance map searches provided in Attachment C.

Table 3A
Summary of Land Use and Historical Use Data Sources

	Controlled Area				
Date	Description of Data	Data Source			
1912	The 1912 topographic map does not contain section numbers, which makes it difficult to accurately identify the Controlled Area site. The map shows the Elk Hills, the town of Buttonwillow, the West Side Canal, Buena Vista and Lake sloughs, North and Coles levees, the Southern Pacific Railroad, and two oil pumping stations approximately 5 miles to the east. The Buena Vista Slough appears to pass near the site from the northwest to the southeast. The Coles Levee appears to pass near the site from the west to the east, and the North Levee runs from the southwest to the northeast.	USGS Topo map, 1912 Buena Vista Lake, California			
1933	The 1933 map shows the eastern edge of the site. The Mesquite Hunting Club is directly to the east. The East Side Canal runs along the eastern edge of the site. The Buena Vista Slough and town of Tupman are included on the map, both to the south.	USGS Topo map, 1933 Tupman, California			
1946	The 1946 aerial photos show the majority of the site undeveloped except for agricultural production. There are several buildings in the northwestern corner of the site and a canal or ditch running across and down the site from the northwest to the southeast.	Aerial Photo, 1946			
1956	The 1956 aerial photos do not show any significant changes from the 1946 aerial photos. What appears to be the West Side and Outlet canals appear at the southern border of the site.	Aerial Photo, 1956			
1967	The 1967 aerial photos do not show any significant changes in the site and surrounding areas (agricultural production and relatively undeveloped), with the exception of the construction of a new large canal (the California Aqueduct).	Aerial Photo, 1967			
1973	The 1973 map only shows the eastern edge of the site, which shows no change from the 1933, 1954, or 1968 topographic maps from that area.	USGS Topo map, 1973 Tupman, California			
1975	The 1975 aerial photos do not show any significant changes in the site and surrounding areas (agricultural production and relatively undeveloped), with the exception of the completed canal (the California Aqueduct).	Aerial Photo, 1975			
1984	The 1984 aerial photos do not show any significant changes in the site and surrounding areas (agricultural production and relatively undeveloped) from the 1975 aerial photos.	Aerial Photo, 1984			

Table 3A
Summary of Land Use and Historical Use Data Sources

	Controlled Area				
Date	Description of Data	Data Source			
1994	The 1994 aerial photos do not show any significant changes in the site and surrounding areas (agricultural production and relatively undeveloped) from the 1984 aerial photos.	Aerial Photo, 1994			
2002	The 2002 aerial photos do not show any significant changes in the site and surrounding areas (agricultural production and relatively undeveloped) from the 1994 aerial photos.	Aerial Photo, 2002			
Note: USGS =	Note: USGS = U.S. Geological Survey				

Table 3B
Summary of Land Use and Historical Use Data Sources

	Proposed HECA Well Field				
Date	Description of Data	Data Source			
1912	The 1912 topographic map does not contain section numbers, which makes it difficult to accurately identify the proposed HECA Well Field site. The site appears to run along the same path as the Buena Vista Slough. The site and surrounding area are mostly undeveloped. In the surrounding area, there appear to be some roads and scattered residences at the end point of the roads. The Southern Pacific Railroad runs east/west approximately 8 miles south of the site, then turns to head southwest.	USGS Topo map, 1912 Buena Vista Lake, California USGS Topo map, 1912 McKittrick, California			
1946	The 1946 aerial photo shows agricultural land on the site to the east of West Side Canal and undeveloped land to the west. There are few structures and agricultural fields in the surrounding area.	Aerial Photo, 1946			
1950	The 1950 topographic map shows the site running roughly along the Buena Vista Slough next to the West Side Canal. There are some roads and a few small buildings on the site. An Indian Burial Mound is noted on the map directly to the east of the site, with two more located further to the southeast. The Bakersfield highway appears for the first time in this map and runs alongside the Southern Pacific Railroad. Both the highway and the railroad run east/west, a few miles south of the site. Dover Pump is located about ½ mile southeast of the site, and Corn Camp is more than a mile to the east.	USGS Topo map, 1950 Lokern, California			

Table 3B
Summary of Land Use and Historical Use Data Sources

	Proposed HECA Well Field				
Date	Description of Data	Data Source			
1954	The 1954 topographic map shows increased development of roads, levees, canals, and wells, with only a few new buildings on the site. The Buena Vista Slough, which appeared in earlier maps, is called the Flood Canal and with a levee alongside. The surrounding area includes the West Side Canal. Several canals are shown to the east of the site, Canal N and Canal 17, and Main Drain. Four wells are shown on the map, all to the east of the site, with the closest approximately 1½ miles away. Three are adjacent to a Canal and the one closest to the site is adjacent to a cluster of buildings near Perral Road. There is another cluster of buildings less than a mile to the east of the site at the corner of Seventh Standard Road and an unnamed road. The topographic map does not specify the type of well; therefore, these are presumed to be water wells.	USGS Topo map, 1954 Lokern, California			
1956	The 1956 aerial photos show no significant change from the 1946 aerial photos, with land to the west primarily agricultural and land to the west undeveloped.	Aerial Photo, 1956			
1967	The 1967 aerial photos show little significant change from the 1956 aerial photos, with the exception of the construction of the California Aqueduct approximately 1 mile to the west.	Aerial Photo, 1967			
1973	The 1973 topographic map does not show a significant change from the 1954 topographic map.	USGS Topo map, 1973 Lokern, California			
1975	The 1975 aerial photos show no significant change from the 1967 aerial photo, with the exception of the completed California Aqueduct, which was previously under construction.	Aerial Photo, 1975			
1979	The 1979 topographic map shows an increase in roads and several new clusters of buildings in the surrounding area. The closest cluster of buildings is just west of the Main Drain. All of the wells from previous years are shown on the map and an additional six, all to the east of the site, are visible. A pipeline is shown on the west side of the site running northwest to southeast at a steeper angle than the California Aqueduct (not shown in previous maps), and another pipeline running southwest to northeast that intersects with the other pipeline and stops before the California Aqueduct.	USGS Topo map, 1979 McKittrick, California			
1984	The 1984 aerial photos show no significant change from the 1975 aerial photos.	Aerial Photo, 1984			

Table 3B
Summary of Land Use and Historical Use Data Sources

Date	Description of Data	Data Source
1994	The 1994 aerial photos show no significant change from the 1984 aerial photos, with the exception of new roads in the area.	Aerial Photo, 1994
2002	The 2002 aerial photos show no significant change from the 1984 aerial photos, with the exception of new roads in the area and buildings on the farm plots in the surrounding area.	Aerial Photo, 2002

Table 3C
Summary of Land Use and Historical Use Data Sources

	Preferred Carbon Dioxide Line				
Date	Description of Data	Data Source			
1946	The 1946 aerial photo shows the Preferred Carbon Dioxide Line alignment and surrounding area as undeveloped land.	Aerial Photo, 1946			
1954	The 1954 topographic map shows no development along the alignment. The West Side Canal runs northwest/southeast to the north, with a reservoir to the east of the alignment. Adohr and Dairy roads are shown on the map to the north, with a cluster of buildings and a landing strip near the intersection. There are three wells to the north of the alignment	USGS Topo map, 1954 East Elk Hills California			
1956	The 1956 aerial photo shows no significant change from the 1946 aerial photo.	Aerial Photo, 1956			
1967	The 1967 aerial photo shows no significant change from the 1956 aerial photo (undeveloped land), with the exception of construction of a canal (the California Aqueduct) on the northern edge of the alignment.	Aerial Photo, 1967			
1973	The 1973 topographic map shows no significant change from the 1954 map.	USGS Topo map, 1973 East Elk Hills, California			

Table 3C Summary of Land Use and Historical Use Data Sources

	Preferred Carbon Dioxide Line				
Date	Description of Data	Data Source			
1975	The 1975 aerial photo shows no significant change from the 1967 aerial photo (undeveloped land), with the exception of completed construction of a canal (the California Aqueduct) on the northern edge of the alignment.	Aerial Photo, 1975			
1984	The 1984 aerial photo shows no significant change from the 1975 aerial photo (undeveloped land).	Aerial Photo, 1984			
1994	The alignment and surrounding area is not visible in the 1994 aerial photos.	Aerial Photo, 1994			
2002	The alignment and surrounding area is not visible in the 2002 aerial photos.	Aerial Photo, 2002			
Note: USGS = U	11				

Table 3D Summary of Land Use and Historical Use Data Sources

	Natural Gas Line	
Date	Description of Data	Data Source
1933	The 1933 topographic map shows little development in the area. The Taft-Bakersfield Highway and Coles Levee run along the Natural Gas Line alignment. The Western Water Company Camp is to the west, with several buildings and tanks. The Kern River runs through the area and the Buena Vista Slough runs northwest to southeast. A road runs alongside the Slough.	USGS Topo map, 1933 Tupman, California
1946	The 1946 aerial photo shows a number of roads in the area, with buildings in one area adjacent to the north side of the alignment. A canal and slough can be seen along the western side.	Aerial Photo, 1946

Table 3D **Summary of Land Use and Historical Use Data Sources**

	Natural Gas Line	
Date	Description of Data	Data Source
1954	The 1954 topographic map shows a system of roads running through the area. To the north is the North Coles Levee Oil Field, with three clusters of oil tanks and two oil wells. To the south is the South Coles Levee Oil Field, with a water tank, wells, and a reservoir close to the alignment and one oil well, an oil sump, another reservoir, and a cluster of oil tanks further south. An inlet canal, levee, and highway (399) run northwest to southeast to the west of the alignment. The Taft Highway and Coles Levee run along the alignment. The Western Water Company is further to the west, with a cluster of buildings and water tanks. A sandy strip runs through the North Coles Levee Oil Field, bordered by levees.	USGS Topo map, 1954 Tupman, California
1956	The 1956 aerial does not show the alignment. The surrounding area to the north is visible and appears unchanged from the 1946 aerial photo.	Aerial Photo, 1956
1967	The 1967 aerial photo shows the alignment and surrounding areas as relatively unchanged from the 1946 and 1956 aerial photos, with the exception of new rectangular areas that appear to be reservoirs or oil sumps.	Aerial Photo, 1967
1968	The 1968 topographic map shows the western section of the Area. The map shows the California Aqueduct (under construction). The highway running east/west is numbered 119 (Taft Highway). There are no other significant changes from the 1954 map.	USGS Topo map, 1968 Tupman, California
1973	The 1973 topographic map shows an increase in buildings and tanks in a cluster northwest of the alignment. There are no other significant changes from the 1954 and 1968 maps.	USGS Topo map, 1973 Tupman, California
1974	The 1974 aerial photo does not show the alignment. The surrounding areas appear unchanged from the 1946, 1956, and 1967 aerial photos, with the exception of new roads in the area.	Aerial Photo, 1974

Table 3E
Summary of Land Use and Historical Use Data Sources

Potable Water/NG Supply Line				
Date	Description of Data	Data Source		
1912	The 1912 topographic map does not contain section numbers, which makes it difficult to accurately identify the Potable Water/NG Supply Line alignment. The alignment appears to be in agricultural use. The map shows the following in the surrounding area: Elk Hills, the town of Buttonwillow, the West Side Canal, Buena Vista and Lake sloughs, North and Coles levees, the Southern Pacific Railroad, and two oil pumping stations.	USGS Topo map, 1912 Buena Vista Lake, California		
1933	The 1933 Topographic map shows little development on the alignment and the surrounding area. The Taft-Bakersfield Highway and Coles Levee connect to the alignment. The Mesquite Hunting Club is adjacent to the northern most section of the alignment. The town of Tupman is to the west, with a marsh to the northwest of the town. The Western Water Company Camp is adjacent to the alignment, with several buildings and tanks. The Kern River runs through the area and the Buena Vista Slough runs northwest to southeast. A road runs alongside the Slough through Tupman.	USGS Topo map, 1933 Tupman, California		
1946	The 1946 Aerial photo shows the alignment as mainly agricultural land. A number of roads and small buildings are shown in the surrounding area. A canal and slough run northwest to southeast. A small town (Tupman) can be seen, with a cluster of large structures to the south.	Aerial Photo, 1946		
1954	The 1954 Topographic map shows that the alignment is in agricultural use, with a number of oil tanks and wells, presumably used for farming. A system of roads runs through the surrounding area. Adjacent to the alignment on the east are the North Coles Levee Oil Field, with three clusters of oil tanks, a landing strip, and two oil wells, and the South Coles Levee Oil Field, with a water tank, wells, two reservoirs, one oil well, an oil sump, and a cluster of oil tanks further south. An inlet canal, levee, and highway (399) run northwest to southeast to the west of the alignment. The Taft Highway and Coles Levee run east/west. The Western Water Company is further to the west, with a cluster of buildings and water tanks. A sandy strip runs through the North Coles Levee Oil Field, bordered by levees. The town of Tupman is to the west, with numerous buildings, roads, and the Elk Hill School.	USGS Topo map, 1954 Tupman California		
1956	The 1956 aerial photo shows the west of the alignment undeveloped except for a few roads. The surrounding area is used for agriculture or has small developments. It includes a small town (Tupman) and a few building clusters. The area east of the alignment is primarily agricultural and appears unchanged from the 1946 aerial photo.	Aerial Photo, 1956		

Table 3E **Summary of Land Use and Historical Use Data Sources (Continued)**

	Potable Water/NG Supply Line	
Date	Description of Data	Data Source
1967	The 1967 aerial photo shows the alignment and surrounding areas as relatively unchanged from the 1946 and 1956 aerial photos, with the exception of a new large canal (the California Aqueduct) which appears to be under construction on the west side of the alignment.	Aerial Photo, 1967
1968	The 1968 topographic map shows the western section of the alignment and the surrounding area. The map shows the California Aqueduct (under construction). The Bypass Channel runs east/west; it is surrounded by a levee and contains several small lakes or ponds. There are two wells and several oil tanks in the area. A well close to the alignment appears to be near a lake/pond. There are no other significant changes from the 1954 map.	USGS Topo map 1968 Tupman California
1973	The 1973 topographic map shows an increase in buildings and tanks in a cluster east of the alignment. There are no other significant changes from the 1954 and 1968 maps.	USGS Topo map 1973 Tupman, California
1974	The 1974 aerial photo shows the alignment and surrounding areas as relatively uunchanged from the 1946, 1956, and 1967 aerial photos, with the exception of new roads and the completed California Aqueduct and a new canal (West Side Canal).	Aerial Photo, 1975
1984	The 1984 aerial photos show no changes from the 1974 aerial photos.	Aerial Photo, 1984
1994	The 1994 aerial photos show no change from the 1984 photos, with the exception of one photo that shows an area not previously photographed. The aerial photo shows a development approximately ½ mile east of the alignment with a number of large structures, some of which appear to be storage tanks. There are numerous bridges over the canal in the area shown.	Aerial Photo, 1994
2002	The 2002 aerial photos show little change from the 1994 aerial photos. The area to the southwest first pictured in 1994 now appears to have a large piece of land cleared south of the structures.	Aerial Photo, 2002

Table 3F
Summary of Land Use and Historical Use Data Sources

Process Water Supply Line			
Date	Description of Data	Data Source	
1912	The 1912 topographic map does not contain section numbers, which makes it difficult to accurately identify the Process Water Supply Line alignment. The alignment appears to be in agricultural use. The map shows the following in the surrounding area: Elk Hills, the town of Buttonwillow, the West Side Canal, Buena Vista and Lake sloughs, North and Coles levees, the Southern Pacific Railroad, and two oil pumping stations approximately 8 miles east of the alignment.	USGS Topo map, 1912 Buena Vista Lake, California	
1933	The alignment is generally agricultural land. The 1933 topographic map shows little development in the surrounding area. The map shows the West Side Canal, the Buena Vista Slough, and the town of Tupman to the west, with a marsh to the northwest of the town. The Mesquite Hunting Club is north of the alignment. The Western Water Company Camp is adjacent to the site, with several buildings and tanks. The Kern River runs through the area and the Buena Vista Slough runs northwest to southeast. A road runs alongside the Slough through Tupman. The Taft-Bakersfield Highway and Coles Levee connect to the alignment.	USGS Topo map, 1933 Tupman California	
1946	The 1946 aerial photo shows agricultural land on the alignment and surrounding area to the east of West Side Canal and undeveloped land to the west. There are few structures and roads in the area.	Aerial Photo, 1946	
1954	The alignment is generally agricultural land. In the midsection of the alignment, there are several drains and canals to the north. The Elk Hills Road runs north/south and cuts across the alignment. The 1954 Topographic map shows an increase in development in some areas near the alignment. The Kern River is shown on the map with reservoirs to the south. A pipeline runs north/south across the alignment. There are six wells to the east, scattered buildings, and the Mirasol Airport. Further south there are three more wells adjacent to the alignment.		
1956	The 1956 aerial photos show no significant change from the 1946 aerial photos, with land to the west primarily agricultural and land to the west undeveloped.	Aerial Photo, 1956	
1967	The 1967 aerial photos show little significant change from the 1956 aerial photos, with the exception of the construction of the California Aqueduct.	Aerial Photo, 1967	
1973	The 1973 Topographic map shows no significant change from the 1954 map.	Aerial Photo, 1973	

Table 3F
Summary of Land Use and Historical Use Data Sources (Continued)

Process Water Supply Line		
Date	Description of Data	Data Source
1975	The 1975 aerial photos show no significant change from the 1967 aerial photo, with the exception of the completed California Aqueduct, which was previously under construction.	Aerial Photo, 1975
1984	The 1984 aerial photos show no significant change from the 1975 aerial photos.	Aerial Photo, 1984
1994	The 1994 aerial photos show no significant change from the 1984 aerial photos, with the exception of new roads in the area.	Aerial Photo, 1994
2002	The 2002 aerial photos show no significant change from the 1984 aerial photos, with the exception of new roads in the area and buildings on the farm plots.	Aerial Photo, 2002
Note: USGS = U.S. Geological Survey		

Table 3G
Summary of Land Use and Historical Use Data Sources

Transmission 1A Line (no aerial photos were available for this site)			
Date	Description of Data	Data Source	
1954	The Transmission 1A Line alignment is generally agricultural on the 1954 topographic map. The surrounding area is generally in agricultural use and includes the town of Buttonwillow, the Southern Pacific Railroad, several major roads, ditches and canals, and three water wells. Adjacent to the alignment there is a substation with several power lines leading into it, oil tanks, and a pipeline running north/south. The East Side Canal is shown on the map adjacent to the alignment. The areas outside of Buttonwillow are not well developed. There are scattered buildings on Wasco Avenue.	USGS Topo map, 1954 East Elk Hills, California	
1973	The 1973 topographic map shows no significant changes from the 1954 map.	USGS Topo map, 1973 East Elk Hills, California	

Table 3H
Summary of Land Use and Historical Use Data Sources

	Transmission 1B Line (no aerial photos were available for this site)		
Date	Description of Data	Data Source	
1954	The Transmission 1B Line alignment is generally agricultural land on the 1954 topographic map. The surrounding area is generally in agricultural use and includes the town of Buttonwillow, the Southern Pacific Railroad, several major roads, ditches and canals, and three water wells. In the area surrounding the alignment there is a substation with several power lines leading into it, oil tanks, and a pipeline running north/south. The East Side Canal is shown on the map. The areas outside of Buttonwillow are not well developed. There are scattered buildings on Wasco Avenue.	USGS Topo map, 1954 East Elk Hills, California	
Note: USGS = U	Note: USGS = U.S. Geological Survey		

Potential Impacts from Former Agricultural Use

URS obtained available crop information from the County of Kern Department of Agriculture and Measurements Standards to identify past crops for the years 1998 to 2008. No other crop data were available electronically. Information regarding the pesticides used on similar crops was obtained from the California Department of Pesticide Regulation (DPR) online database for the years 1998 to 2008. The crops encountered along the linear alignments as well as the Project Site, Controlled Area, and proposed HECA Well Field and their corresponding pesticides, derived as described above, are listed in Tables 4A through 4H.

Table 4A
Summary of Agricultural Usage Data Sources

Project Site			
Data Source	Crops	Potential Pesticides Used	
Kern	Alfalfa	4-(2,4-DB), dimethylamine salt	
County 1998-2008		Beta-cyfluthrin	
1000 2000		Chlorpyrifos	
		Clethodim	
		Cyfluthrin	
		Cypermethrin	
		Diuron	

Table 4A
Summary of Agricultural Usage Data Sources

Project Site			
Data Source	Crops	Potential Pesticides Used	
		Glyphosate, isopropylamine salt	
		Glyphosate, potassium salt	
		Imazethapyr	
		Imazethapyr, ammonium salt	
		Indoxacarb	
		Lambda-cyhalothrin	
		Methomyl	
		Paraquat dichloride	
		Pendimethalin	
		Trifluralin	
	Cotton	Abamectin	
		Acephate	
		Acetamiprid	
		Aldicarb	
		Bifenthrin	
		Borax	
		Buprofezin	
		Carfentrazone-ethyl	
		Chlorpyrifos	
		Clethodim	
		Cyclanilide	
		Cyfluthrin	

Table 4A
Summary of Agricultural Usage Data Sources (Continued)

Project Site			
Data Source	Crops	Potential Pesticides Used	
Kern	Cotton (Continued)	Dimethoate	
County		Diuron	
1998-2008 (Continued)		Endothall, mixed mono- and di- (n,n-dimethylalkylamine) salts	
		Ethephon	
		Etoxazole	
		Fenpropathrin	
		Fenpyroximate	
		Flonicamid	
		Flumioxazin	
		Glufosinate-ammonium	
		Glyphosate	
		Glyphosate, isopropylamine salt	
		Glyphosate, potassium salt	
		Imidacloprid	
		Indoxacarb	
		Mepiquat chloride	
		Oxamyl	
		Oxyfluorfen	
		Paraquat dichloride	
		Pendimethalin	
		Profenofos	
		Prometryn	
		Propargite	
		Pyraflufen-ethyl	
		Pyriproxyfen	
		Pyrithiobac-sodium	
		s,s,s-Tributyl phosphorotrithioate	
		Sodium Chlorate	
		Spiromesifen	
		Thiamethoxam	
		Thidiazuron	
		Urea dihydrogen sulfate	

Table 4A
Summary of Agricultural Usage Data Sources (Continued)

Project Site		
Data Source	Crops	Potential Pesticides Used
Kern	Onion Dry, etc.	Chlorothalonil
County 1998-2008		Chlorthal-dimethyl
(Continued)		Dimethomorph
		Dimethomorph
		Malathion
	Wheat	Mancozeb
		Mefenoxam
		Metalaxyl
		Pendimethalin
		Pyrimethanil
		Azoxystrobin
		Bromoxynil octanoate
		Carfentrazone-ethyl
		Chlorpyrifos
		Dicamba, dimethylamine salt
		Diglycolamine salt of 3,6-dichloro-o-anisic acid
		MCPA, dimethylamine salt

Table 4B
Summary of Agricultural Usage Data Sources

	Controlled Area		
Data Source	Crops	Potential Pesticides Used	
Kern	Alfalfa	See listing in Table 4A	
County 1998-2008	Cotton	See listing in Table 4A	
1000 2000	Onion Dry, etc.	See listing in Table 4A	
	Sugarbeet	Methomyl	
		Sulfur	
		Thiophanate-methyl	
	Tomato Process	Not reported	
	Wheat	See listing in Table 4A	

Table 4C Summary of Agricultural Usage Data Sources

Proposed HECA Well Field		
Data Source	Crops	Potential Pesticides Used
Kern County	Alfalfa	See listing in Table 4A
1998-2008	Corn Forage/Fodder	Spiromesifen
	Cotton	See listing in Table 4A
	Pistachio	Bifenthrin
		Boscalid
		Carbaryl
		Carfentrazone-ethyl
		Clethodim
		Flumioxazin
		Glufosinate-ammonium
		Glyphosate, isopropylamine salt
		Glyphosate, potassium salt
		Methoxyfenozide
		Oryzalin
		Oxyfluorfen
		Paraquat dichloride
		Pendimethalin
		Permethrin
		Pyraclostrobin
		Sethoxydim
		Sulfur
		Thiophanate-methyl
	Sugarbeet	See listing in Table 4B
	Wheat	See listing in Table 4A

Table 4D Summary of Agricultural Usage Data Sources

Preferred Carbon Dioxide Line			
Data Source Crops		Potential Pesticides Used	
Kern	Alfalfa	See listing in Table 4A	
County 1998-2008	Cotton	See listing in Table 4A	

Table 4E Summary of Agricultural Usage Data Sources

Р	Potable Water/Natural Gas Line (combined with Southern Gas Line)				
Data Source Crops Potential Pesticides Used					
Kern	Alfalfa	See listing in Table 4A			
County 1998-2008	Cotton	See listing in Table 4A			
.000 =000	Onion Dry, etc.	See listing in Table 4A			
	Sugarbeet	See listing in Table 4B			
	Tomato Process	Not reported			
	Wheat	See listing in Table 4A			

Table 4F
Summary of Agricultural Usage Data Sources

	Process Water Line			
Data Source	Crops	Potential Pesticides Used		
Kern	Alfalfa	See listing in Table 4A		
County 1998-2008	Corn Forage/Fodder	See listing in Table 4C		
	Cotton	See listing in Table 4A		
	Onion Dry, etc.	See listing in Table 4A		
	Pistachio	See listing in Table 4C		
	Sudangrass	Glyphosate, potassium salt		
	Sugarbeet	See listing in Table 4B		
	Tomato Process	Not reported		
	Wheat	See listing in Table 4A		

Table 4G
Summary of Agricultural Usage Data Sources

	Transmission 1A Line			
Data Source				
Kern	Alfalfa	See listing in Table 4A		
County 1998-2008	Alfalfa Seed	Not reported		
	Cotton	See listing in Table 4A		
	Onion Dry, etc.	See listing in Table 4A		
	Pistachio	See listing in Table 4C		
	Sudangrass	Glyphosate, potassium salt		
	Sugarbeet	See listing in Table 4B		
	Tomato Process	Not reported		
	Wheat	See listing in Table 4A		

Table 4H
Summary of Agricultural Usage Data Sources

	Transmission 1B Line			
Data Source				
Kern	Alfalfa	See listing in Table 4A		
County 1998-2008	Alfalfa Seed	Not reported		
	Cotton	See listing in Table 4A		
	Onion Dry, etc.	See listing in Table 4A		
	Pistachio	See listing in Table 4C		
	Sudangrass	Glyphosate, potassium salt		
	Sugarbeet	See listing in Table 4B		
	Timothy	Diglycolamine salt of 3,6-dichloro-o-anisic acid		
	Wheat	See listing in Table 4A		

It should be noted that the pesticides used on similar crops serve as a general guide to the potential pesticides present, but the data may not be comprehensive enough to represent a detailed history of pesticide application. These pesticides listed appear to have been legally applied to the crops and reported to the DPR; therefore, these listings do not represent an uncontrolled release to the Project Site, Controlled Area, linears, or proposed HECA Well Field.

Potential Presence of and Proximity to Contaminated Sites

To identify contaminated sites with greater likelihood of potential environmental impacts, URS reviewed the regulatory agency databases listed in Table 5.

This review focused on identifying properties or facilities located within a search distance of up to 1 mile of each linear and the proposed HECA Well Field that may have the potential to adversely affect significant environmental conditions at the linears. This information was previously provided to the CEC for the Project Site as part of the Revised AFC; therefore, it is not repeated here.

Table 5
Summary of Agency Databases Searched

	Julilliary of Agency Databases Searched	
Database	Description of Database/Effective Date	Search Distance from Alignment
NPL	The National Priorities List (NPL) identifies uncontrolled or abandoned hazardous waste sites. To appear on the NPL, sites must have met or surpassed a predetermined hazard ranking system score, been chosen as a state's top priority site, pose a significant health or environmental threat, or be a site where the U.S. Environmental Protection Agency has determined that remedial action is more cost-effective than removal action.	1 mile
DOGGR	The Division of Oil, Gas, and Geothermal Resources (DOGGR) maintains a list of current and historical oil and gas wells.	0.25 mile
CERCLIS	The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database identifies hazardous waste sites that require investigation and possible remedial action to mitigate potential negative impacts on human health or the environment.	0.5 mile
CERCLIS- NFRAP	The CERCLIS-No Further Remedial Action Planned (NFRAP) database identifies sites that have been removed from CERCLIS following an initial investigation, either because no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.	0.5 mile
EnviroStor	This database contains both known and potential hazardous substance sites under oversight of the California Department of Toxic Substance Control that are similar to the CERCLIS sites.	1 mile
CA SLIC	This database contains both known and potential hazardous substance sites under oversight of the California Department of Toxic Substance Control.	0.5 mile

Table 5
Summary of Agency Databases Searched

Database	Description of Database/Effective Date	Search Distance from Alignment
SWIS	State inventory of solid waste disposal and landfill sites available from the Solid Waste Information System (SWIS) database maintained by the California Integrated Waste Management Board.	0.5 mile
LUST	List of information pertaining to all reported Leaking Underground Storage Tank (LUST) sites available from the Regional Water Quality Control Board GeoTracker database.	0.5 mile

These databases were searched via a customized search from Environmental Data Resources of Milford Connecticut. The database records were imported into Geographic Information System and are shown on Figure 2.

URS environmental professionals with experience in site assessment identified sites that are upgradient of the proposed linears and proposed HECA Well Field, and may represent a potential environmental concern. A ranking of sites into low, medium, and high categories of concern is presented in Tables 6A through 6G.

As with all reviews of regulatory agency databases, any sites not known to the agencies will not be listed and therefore will not be discovered by this type of database investigation. In addition, some sites may be incorrectly mapped due to inaccurate or incomplete address information. However, this approach to the identification of potential sites of concern is commonly used for environmental site assessments.

Table 6A
Summary of Agency Database Records

	Proposed HECA Well Field			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern	
NPL	None	1 mile	NA	
DOGGR	Three plugged and abandoned dry holes are present on the DOGGR database within the 0.25-mile search radius of the proposed linear.	0.25 mile	Low	
CERCLIS	None	0.5 mile	NA	
CERCLIS- NFRAP	None	0.5 mile	NA	
EnviroStor	None	1 mile	NA	
CA SLIC	None	0.5 mile	NA	
SWIS	None	0.5 mile	NA	
LUST	None	0.5 mile	NA	

Table 6B Summary of Agency Database Records

	Preferred Carbon Dioxide Line			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern	
NPL	None	1 mile	NA	
DOGGR	Fifty-one DOGGR wells are within the 0.25-mile search radius of the proposed linear. The wells are comprised of: 1 blank well; 39 completed oil wells; 2 observation wells; 1 plugged and abandoned dry hole; and 8 plugged and abandoned oil wells.	0.25 mile	Medium	
CERCLIS	None	0.5 mile	NA	
CERCLIS- NFRAP	None	0.5 mile	NA	
EnviroStor	None	1 mile	NA	
CA SLIC	None	0.5 mile	NA	
SWIS	None	0.5 mile	NA	
LUST	None	0.5 mile	NA	

Table 6C Summary of Agency Database Records

	Natural Gas Line			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern	
NPL	None	1 mile	NA	
DOGGR	Fifty-three DOGGR wells are within the 0.25-mile search radius of the proposed linear. The wells are comprised of 3 blank wells; 20 completed oil wells; 3 completed water disposal wells; 2 completed waterflood wells; 6 oil wells converted to waterflood wells; 1 oil tunnel entrance; 4 oil wells converted to waterflood wells-abandoned; 7 plugged and abandoned dry holes; 1 plugged and abandoned gas well; and 6 plugged and abandoned oil wells.	0.25 mile	Medium	
CERCLIS	None	0.5 mile	NA	
CERCLIS- NFRAP	None	0.5 mile	NA	
EnviroStor	None	1 mile	NA	
CA SLIC	None	0.5 mile	NA	
SWIS	None	0.5 mile	NA	
LUST	None	0.5 mile	NA	

Table 6D Summary of Agency Database Records

	Potable Water Line			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern	
NPL	None	1 mile	NA	
DOGGR	Fifty-three DOGGR wells are within the 0.25-mile search radius of the proposed linear. The wells are comprised of 3 blank wells; 20 completed oil wells; 3 completed water disposal wells; 2 completed waterflood; 6 oil wells converted to waterflood wells; 1 oil tunnel entrance; 4 oil wells converted to waterflood wells-abandoned; 7 plugged and abandoned dry holes; 1 plugged and abandoned gas well; and 6 plugged and abandoned oil wells.	0.25 mile	Medium	
CERCLIS	None	0.5 mile	NA	
CERCLIS- NFRAP	None	0.5 mile	NA	
EnviroStor	None	1 mile	NA	
CA SLIC	None	0.5 mile	NA	
SWIS	None	0.5 mile	NA	
LUST	None	0.5 mile	NA	

Table 6E Summary of Agency Database Records

	Process Water Line			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern	
NPL	None	1 mile	NA	
DOGGR	Seven plugged and abandoned dry holes are present on the DOGGR database within the 0.25-mile search radius of the proposed linear.	0.25 mile	Low	
CERCLIS	None	0.5 mile	NA	
CERCLIS- NFRAP	None	0.5 mile	NA	
EnviroStor	None	1 mile	NA	
CA SLIC	None	0.5 mile	NA	
SWIS	None	0.5 mile	NA	
LUST	Oasis Liquors, 27736 Highway 58, located 1,964 feet west of the Process Water Line (Map Reference Number 1)	0.5 mile	Based on the distance from the proposed linear, this site is unlikely to impact the soil and groundwater conditions at the linear.	

Table 6F Summary of Agency Database Records

	Transmission 1A Line			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern	
NPL	None	1 mile	NA	
DOGGR	None	0.25 mile	NA	
CERCLIS	None	0.5 mile	NA	
CERCLIS- NFRAP	None	0.5 mile	NA	
EnviroStor	Buttonwillow Dusters, Highway 58/Wasco WA, located 4,679 east of the Transmission 1A Line (Map Reference Number L69)	1 mile	Low	
CA SLIC	None	0.5 mile	NA	
SWIS	None	0.5 mile	Low	
LUST	None	0.5 mile	NA	

Table 6G Summary of Agency Database Records

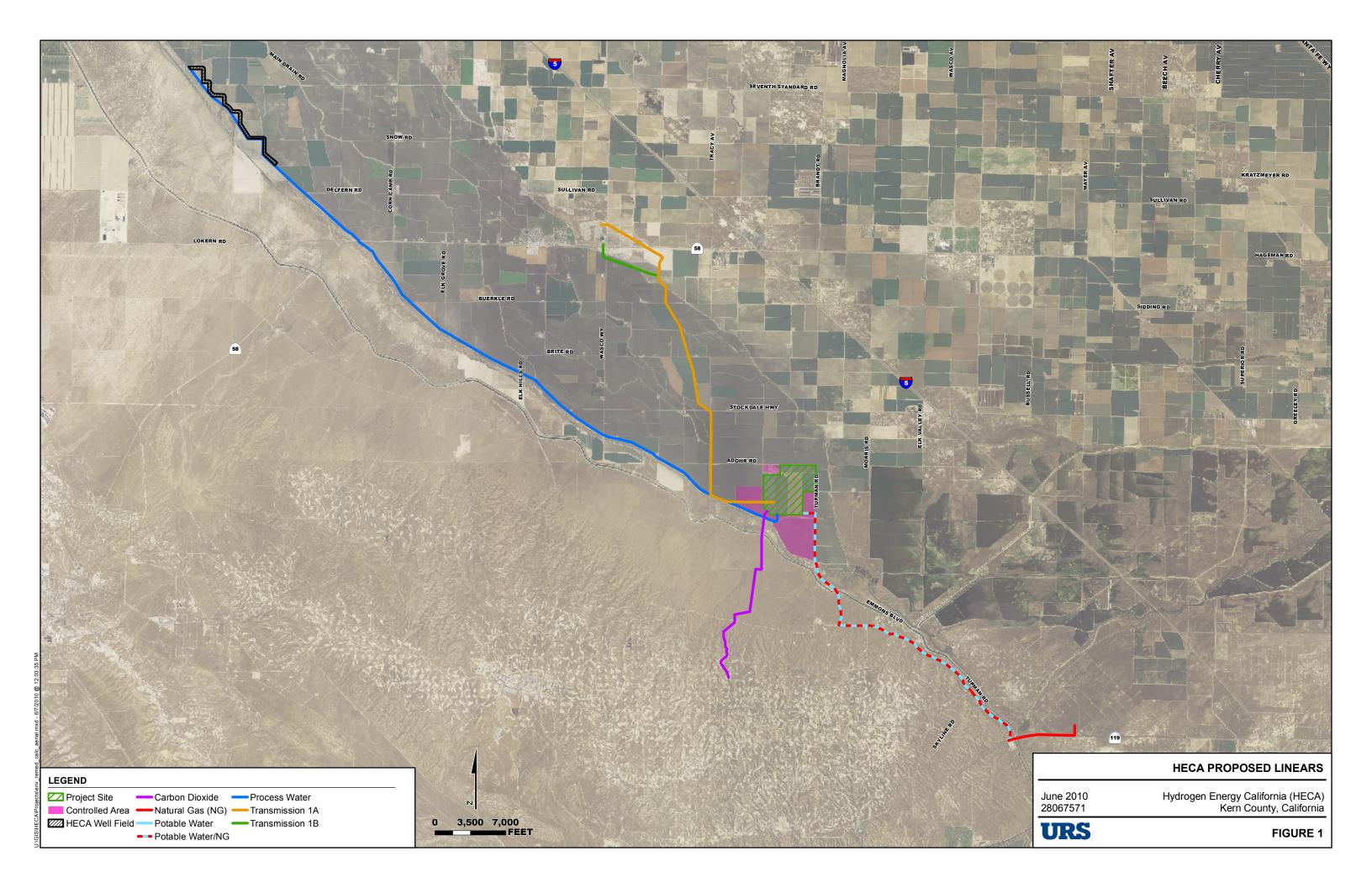
Transmission 1B Line			
Database	Description	Search Distance from Alignment	Preliminary Assessment of Level of Concern
NPL	None	1 mile	NA
DOGGR	None	0.25 mile	NA
CERCLIS	None	0.5 mile	NA
CERCLIS- NFRAP	None	0.5 mile	NA
EnviroStor	Buttonwillow Dusters, Highway 58/Wasco Way, 900 feet north of the Transmission 1B Line (Map Reference Number L69)	1 mile	Medium
CA SLIC	None	0.5 mile	NA
SWIS	Buttonwillow Dusters, Highway 58/Wasco Way, 900 feet north of the Transmission 1B Line (Map Reference Number L69)	0.5 mile	Medium (as a SWIS site)
LUST	 Farmers Cooperative Gin, Inc., 2531 Wasco Way, 996 feet east of the Transmission 1B Line (Map Reference Number L68) Buttonwillow Dusters, Highway 58/Wasco Way, 900 feet north of the Transmission 1B Line (Map Reference Number L69) 	0.5 mile	Based on the distance from the proposed linear, the UST releases at sites are unlikely to impact the soil and groundwater conditions at the linear. The Buttonwillow Dusters site is also listed for other environment al issues.

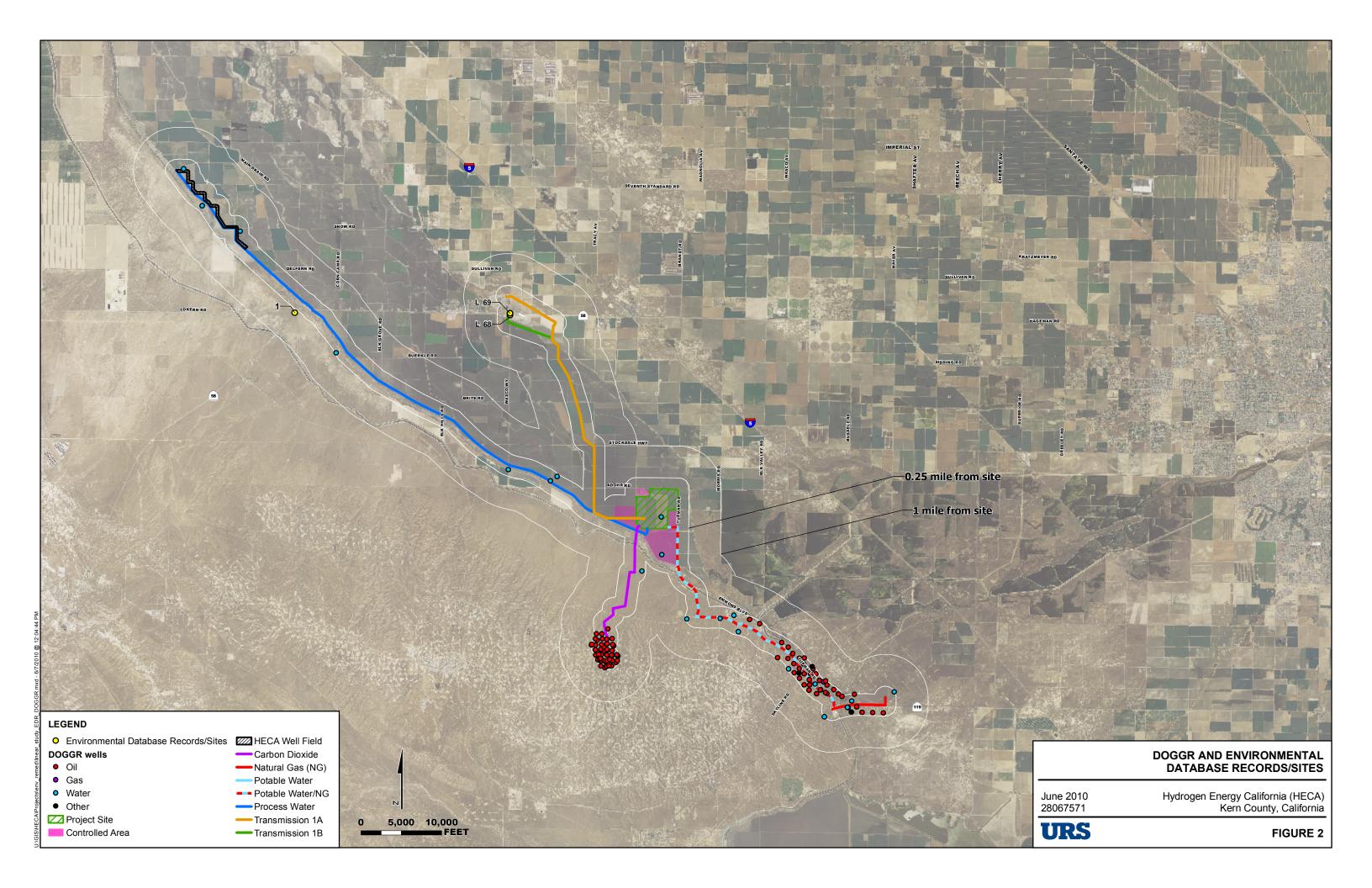
In addition to the databases reviewed in Tables 6A through 6G, URS reviewed the following additional databases for the proposed linears and proposed HECA Well Field:

- RCRA-LQG and SQG,
- RCRA-Non Gen,
- CORRACTS
- ERNS,
- UST,
- AST,
- SWRCY,
- HAULERS,
- CDL,
- HIST UST,
- SWEEPS UST,
- CHMIRS,
- DOD,
- FINDS,
- CA WDS,
- NPDES,
- HIST CORTESE,
- HAZNET, and
- EMI.

Sites were listed in these databases within the prescribed search radii; however, based on the type of facilities listed in these databases, they are considered unlikely to adversely affect the soil and groundwater conditions at the proposed linears.







ATTACHMENT A
TOPOGRAPHIC MAPS

HECA

Dairy Road/Adohr Road Buttonwillow, CA 93206

Inquiry Number: 2755337.4

May 06, 2010

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

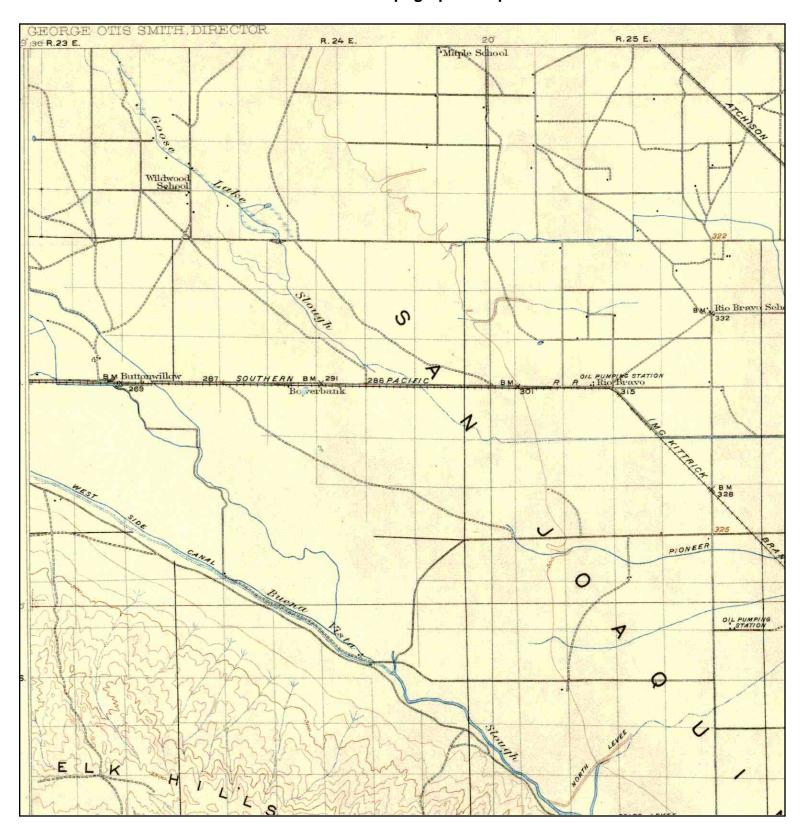
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Historical Topographic Map





TARGET QUAD

NAME: BUENA VISTA LAKE

MAP YEAR: 1912

SERIES: 30

SCALE: 1:125000

SITE NAME: HECA

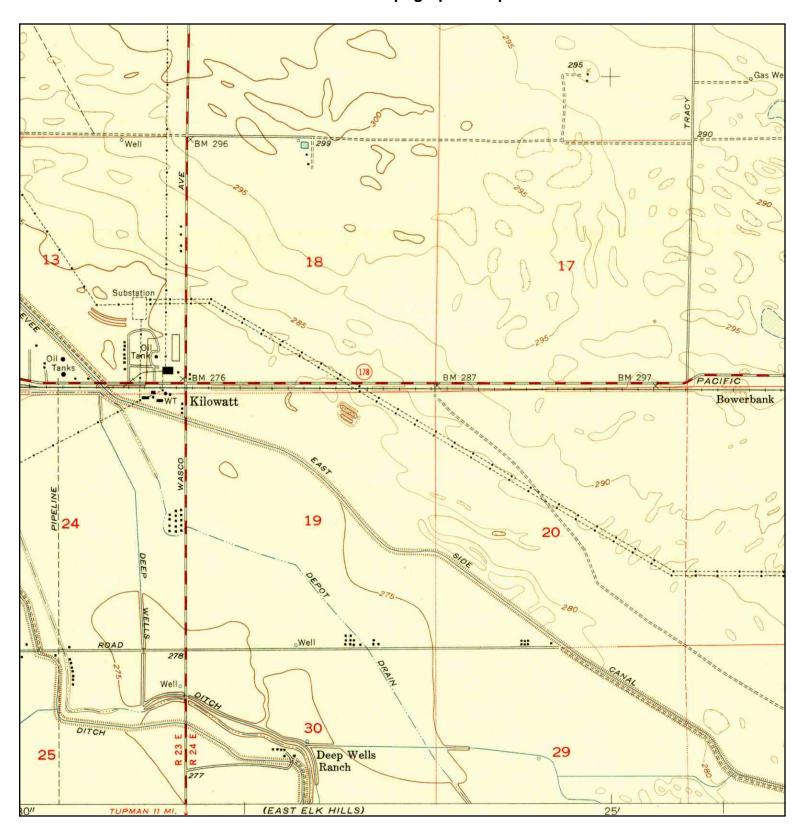
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Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation CONTACT: Kali_futnani INQUIRY#: 2755337.4

RESEARCH DATE: 05/06/2010





TARGET QUAD

NAME: BUTTONWILLOW

MAP YEAR: 1954

SERIES: 7.5 1:24000 SCALE:

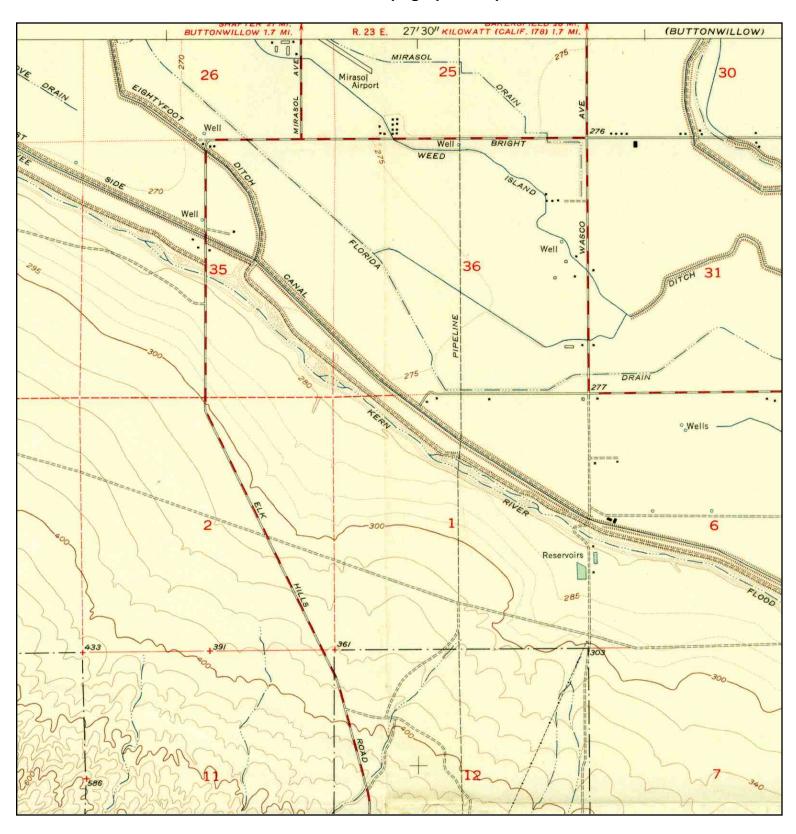
SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

35.3547 / 119.4453 LAT/LONG:

CLIENT: **URS** Corporation CONTACT: Kali_futnani INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1954

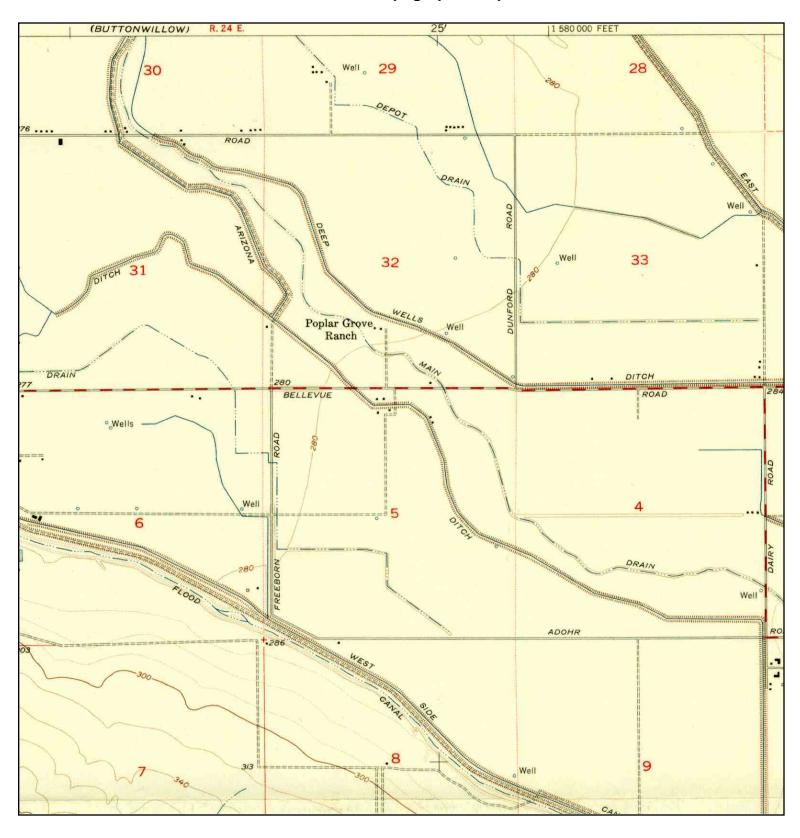
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ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1954

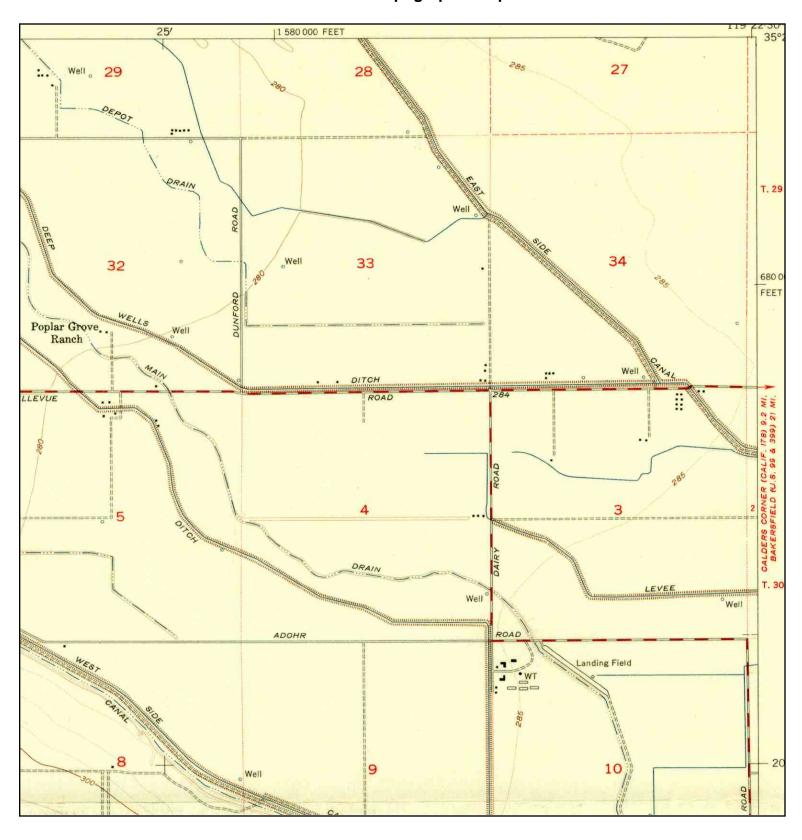
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Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1954

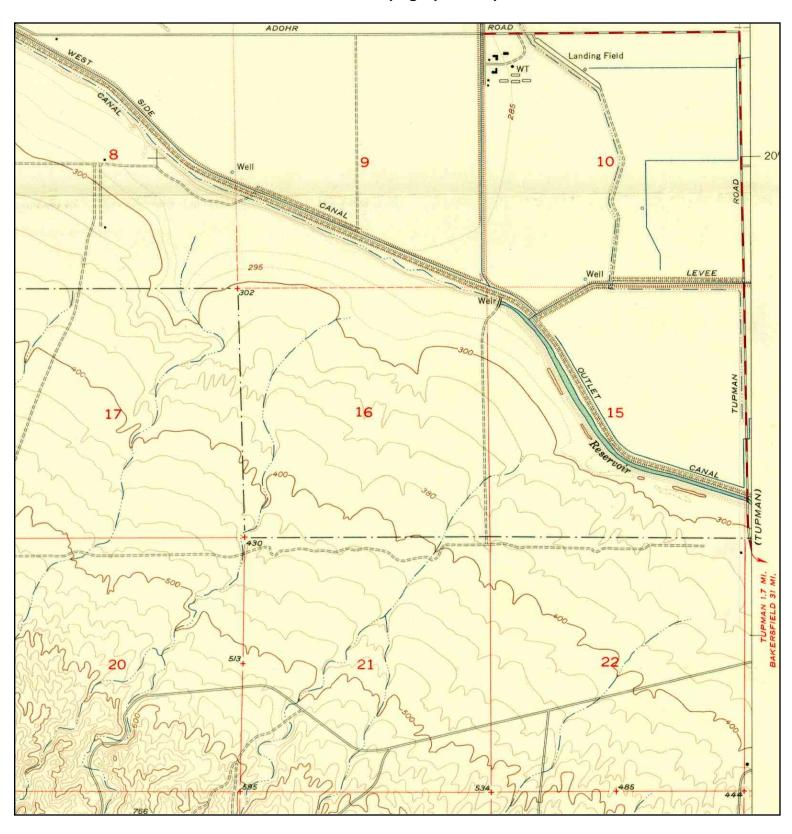
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Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

EAST ELK HILLS NAME:

MAP YEAR: 1954

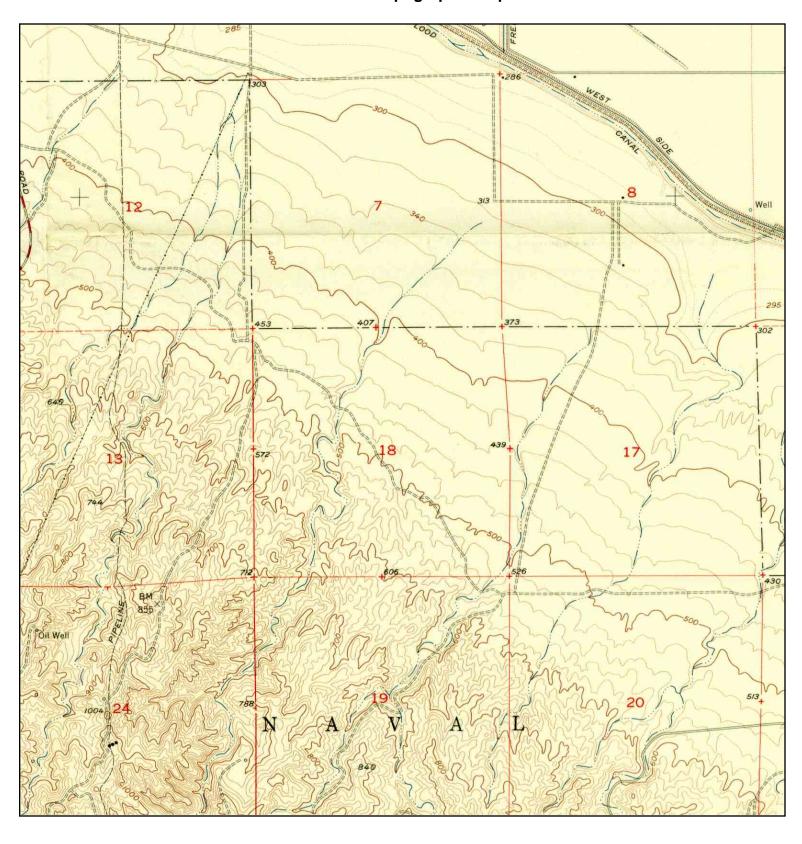
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Buttonwillow, CA 93206

35.3547 / 119.4453 LAT/LONG:

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TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1954

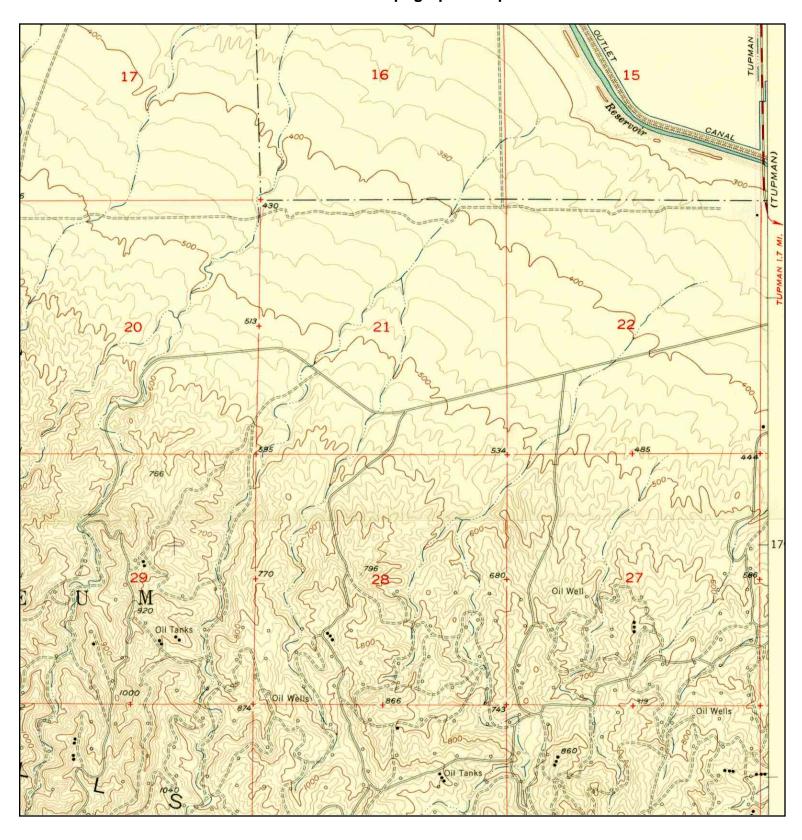
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Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

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INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

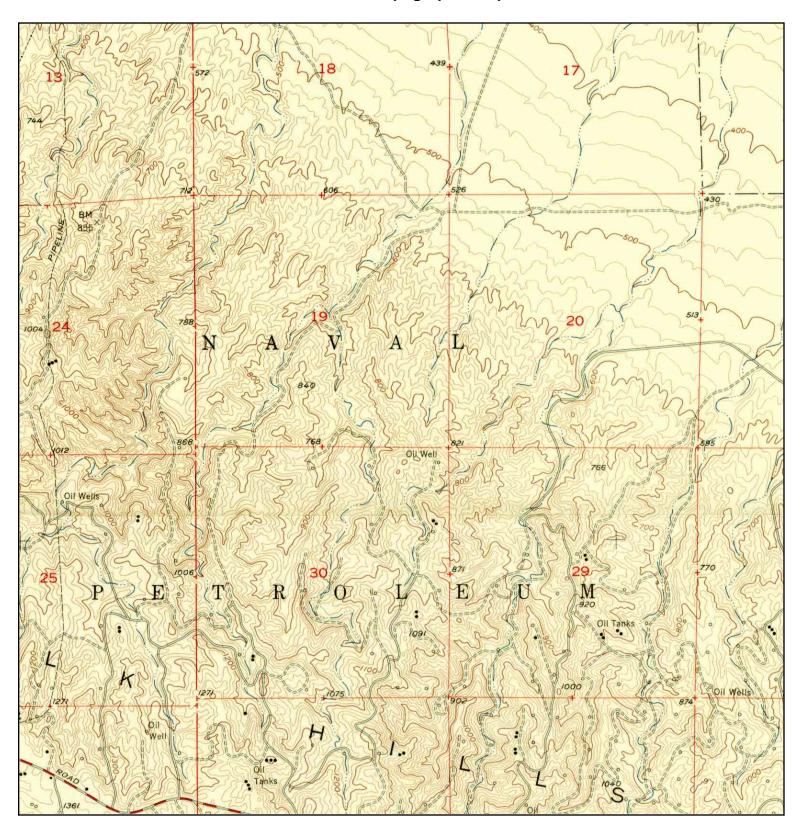
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Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453





TARGET QUAD

NAME: EAST ELK HILLS

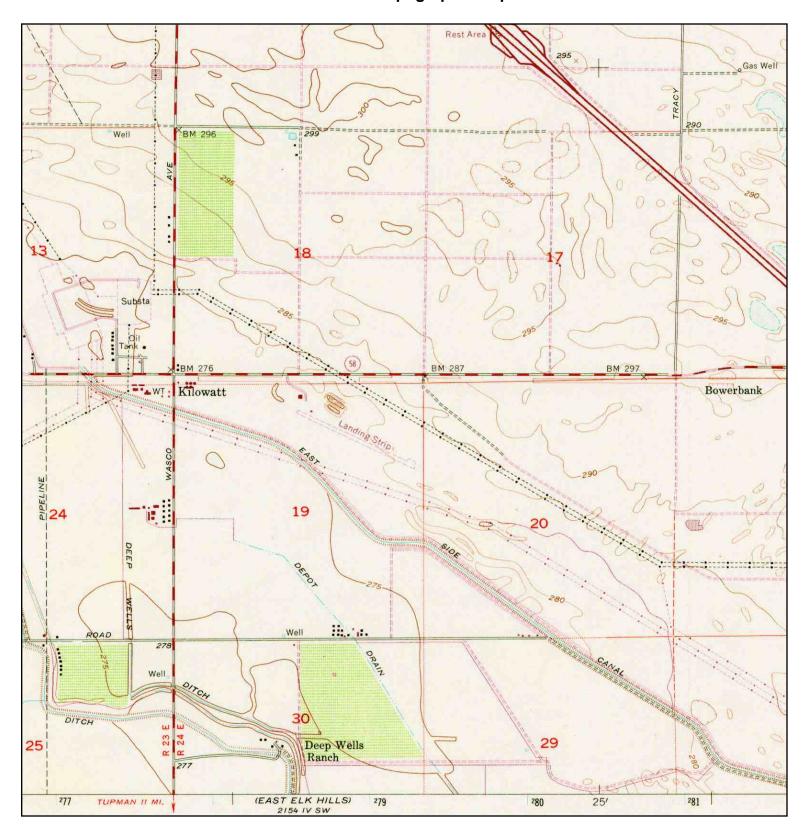
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SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453





TARGET QUAD

NAME: BUTTONWILLOW

MAP YEAR: 1973

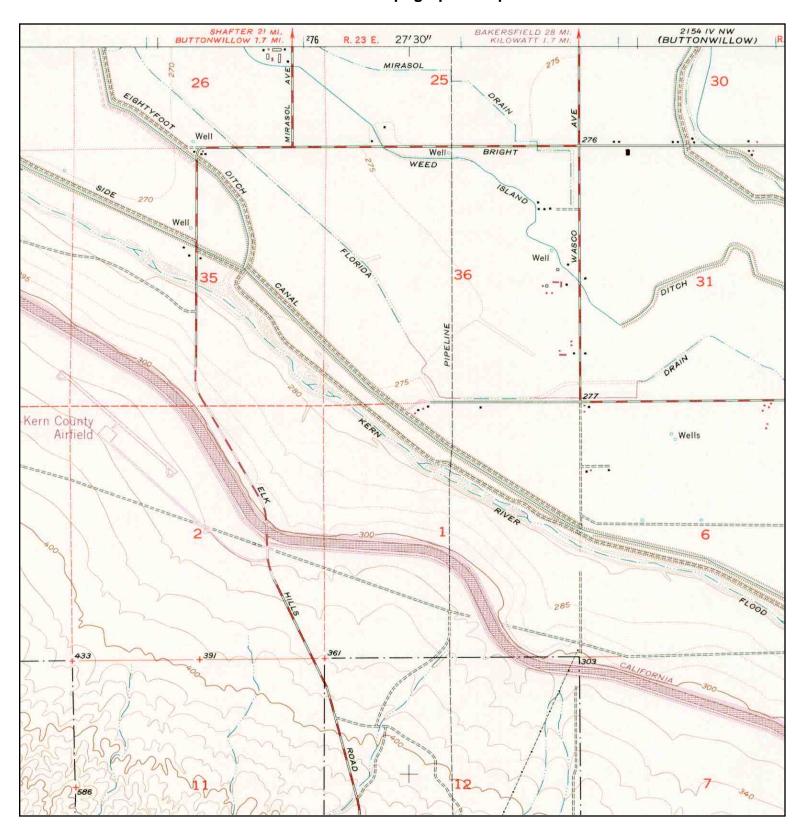
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ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

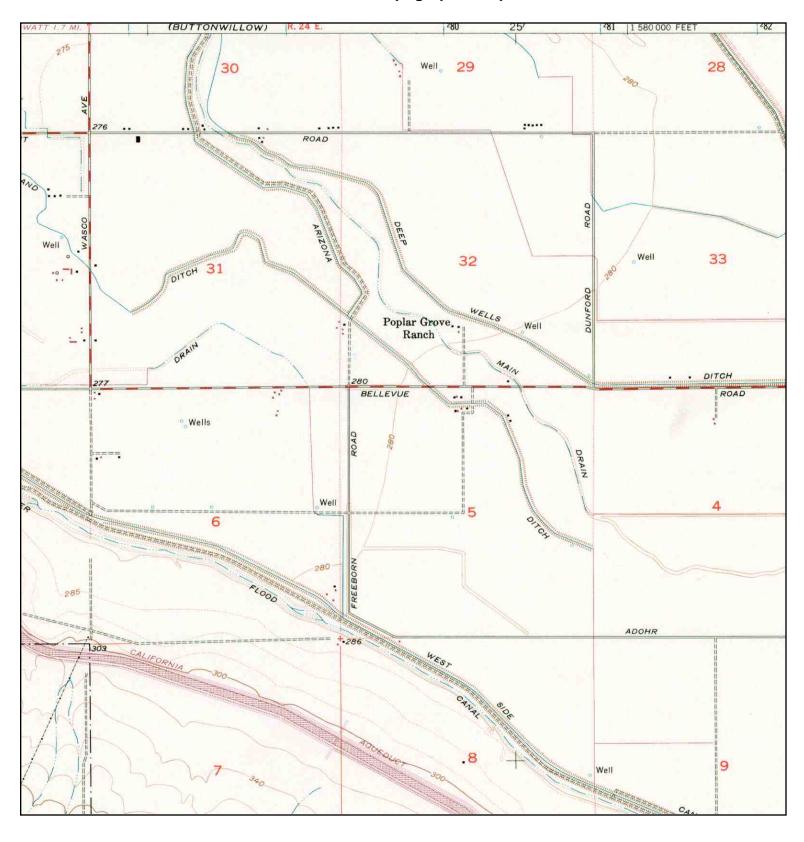
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ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

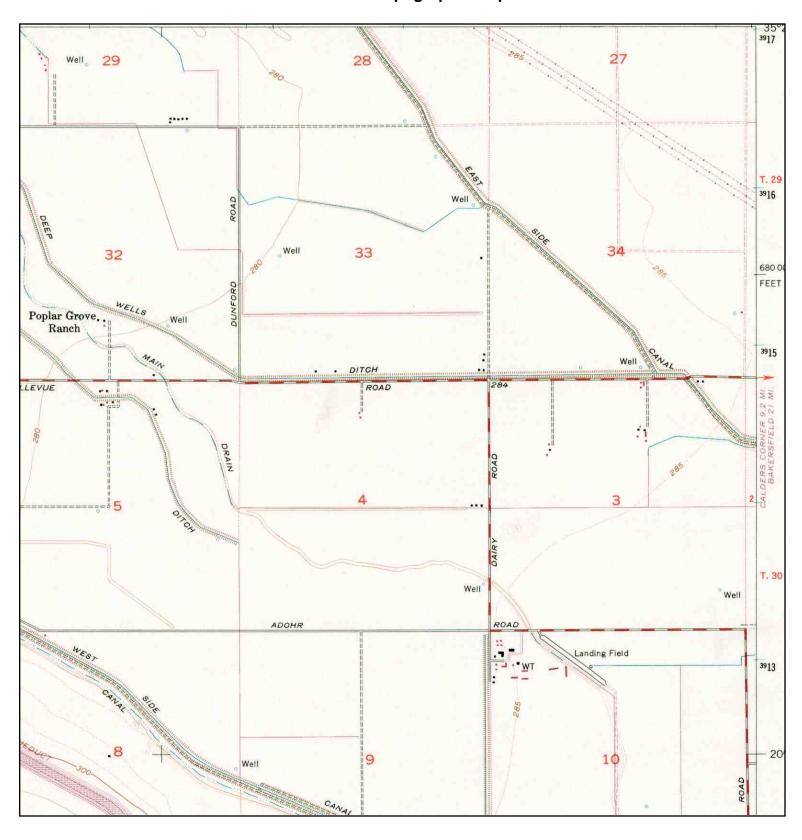
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ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

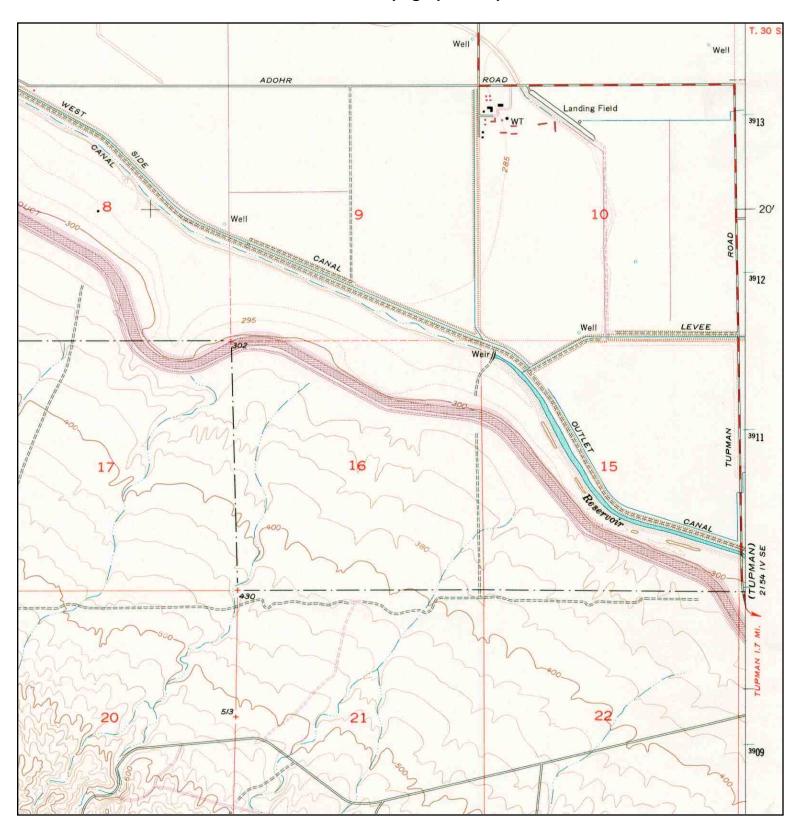
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Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

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TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

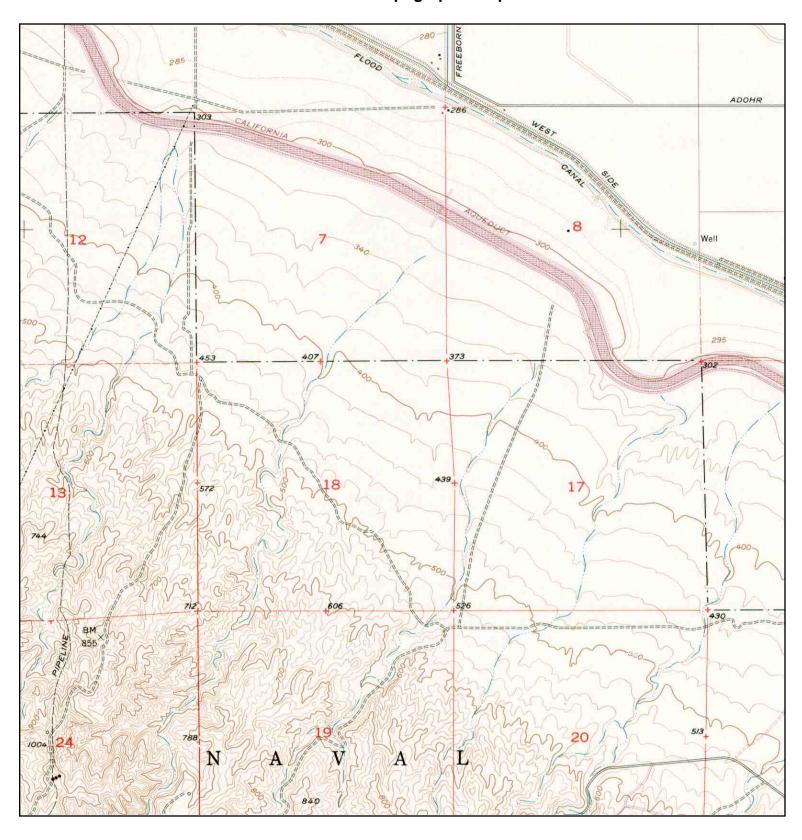
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ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

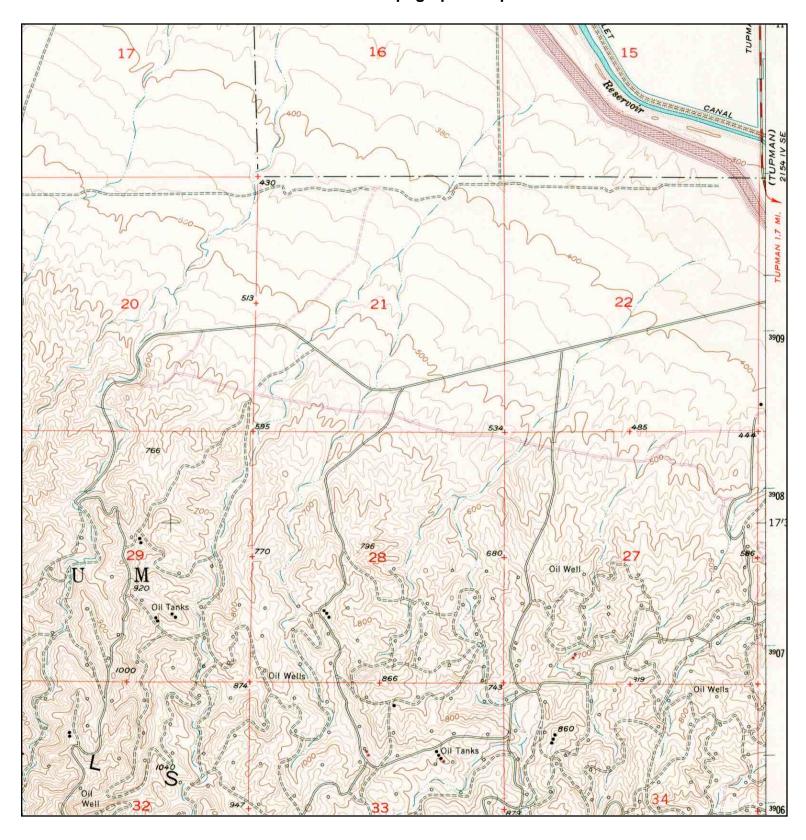
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ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

CLIENT: URS Corporation
CONTACT: Kali_futnani
INQUIRY#: 2755337.4





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3547 / 119.4453

HECA

Dairy Road/Adohr Road Tupman, CA 93276

Inquiry Number: 2755383.4

May 06, 2010

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

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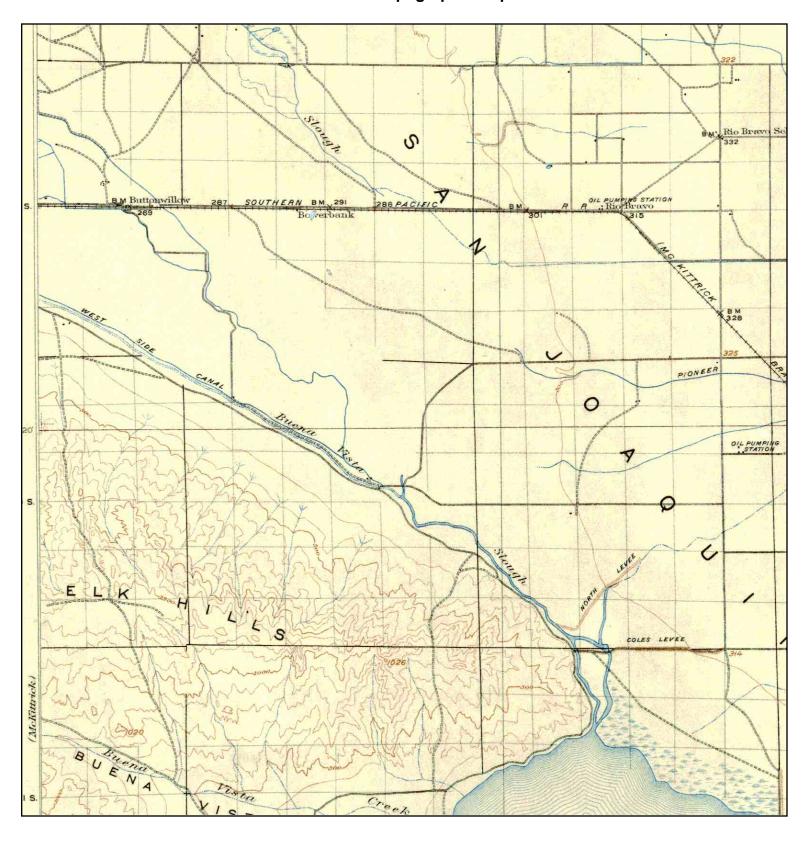
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TARGET QUAD

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MAP YEAR: 1912

SERIES: 30

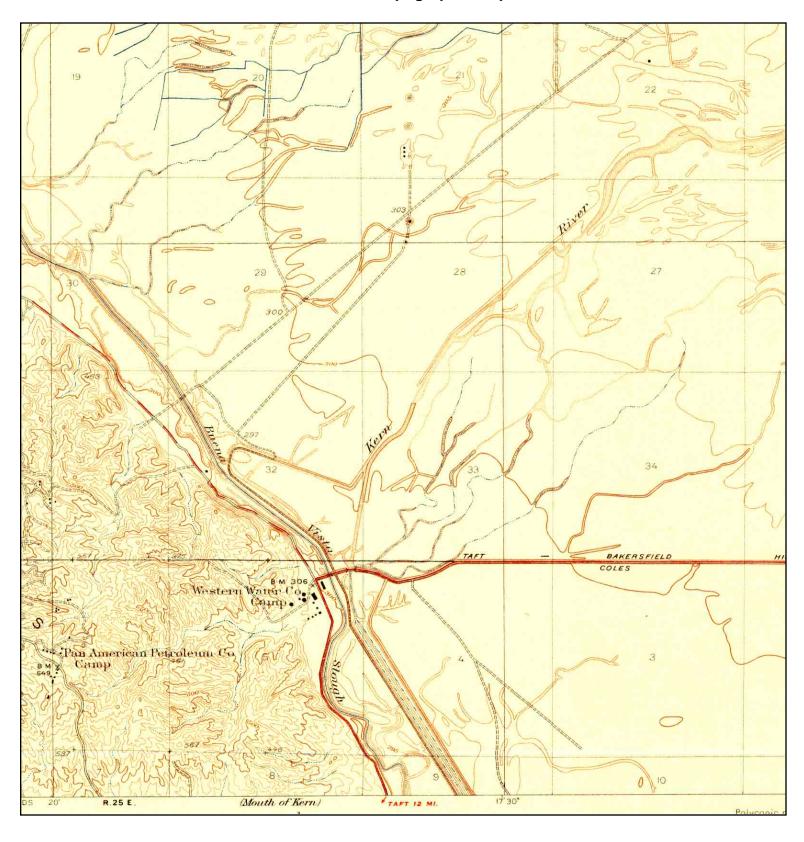
SCALE: 1:125000

SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355





TARGET QUAD NAME: TUPMAN

MAP YEAR: 1933

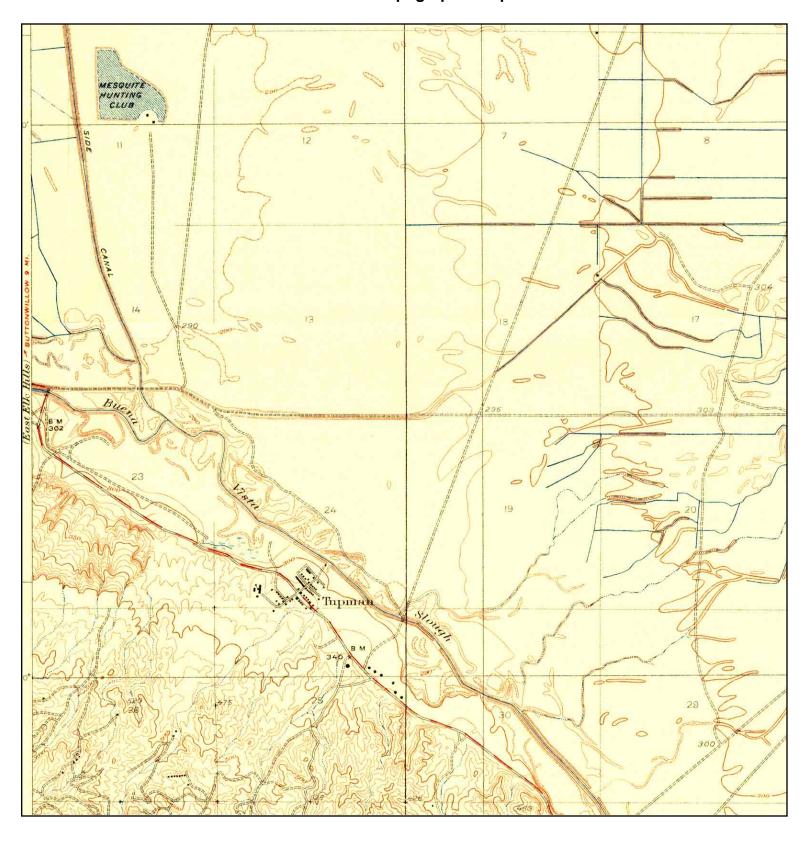
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ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755383.4





TARGET QUAD NAME: TUPMAN

MAP YEAR: 1933

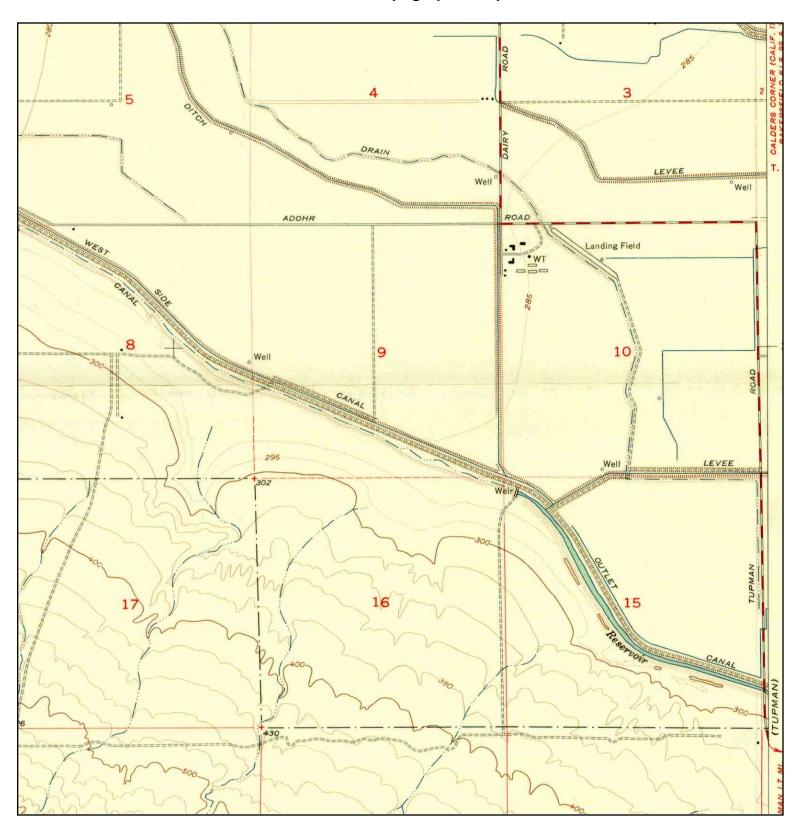
SERIES: 7.5 SCALE: 1:31680 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755383.4





TARGET QUAD

NAME: EAST ELK HILLS

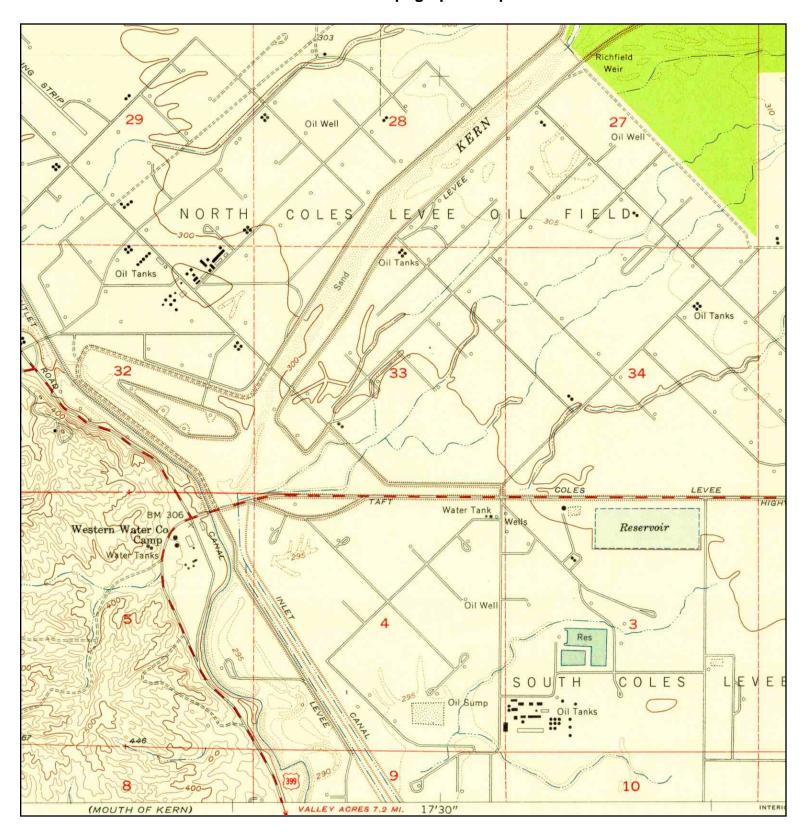
MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355





TARGET QUAD

NAME: TUPMAN MAP YEAR: 1954

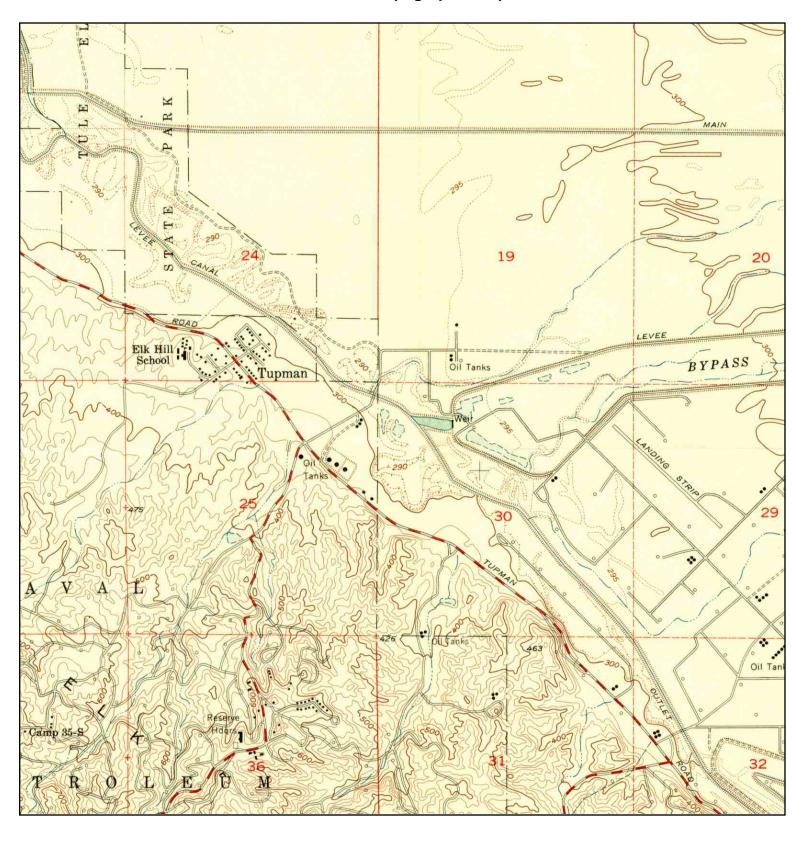
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755383.4



N TARGET QUAD NAME: TUPMAN

MAP YEAR: 1954

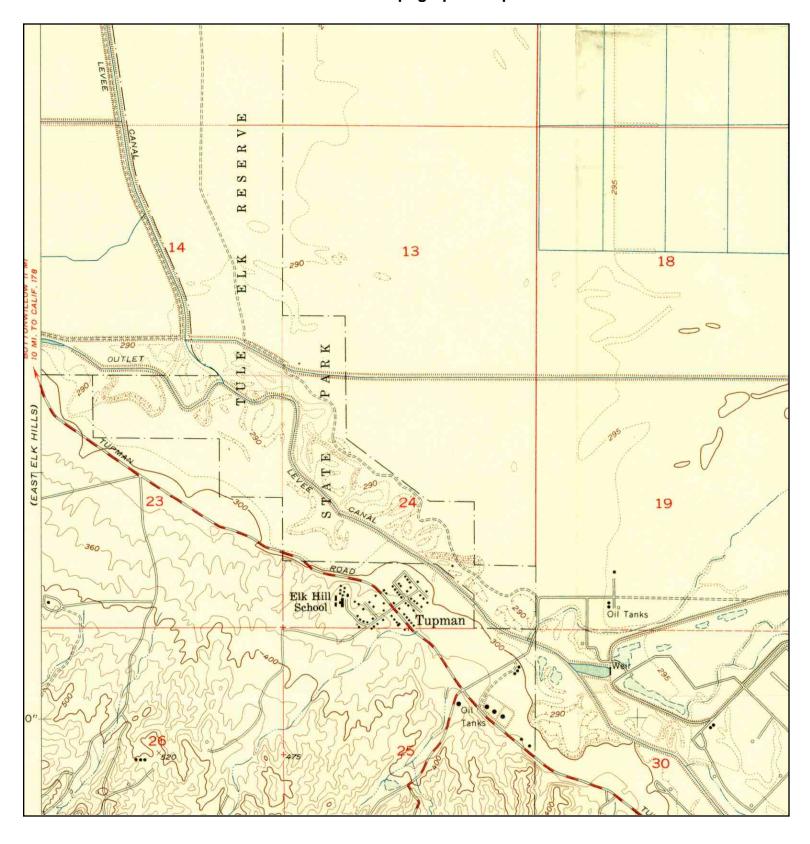
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ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755383.4



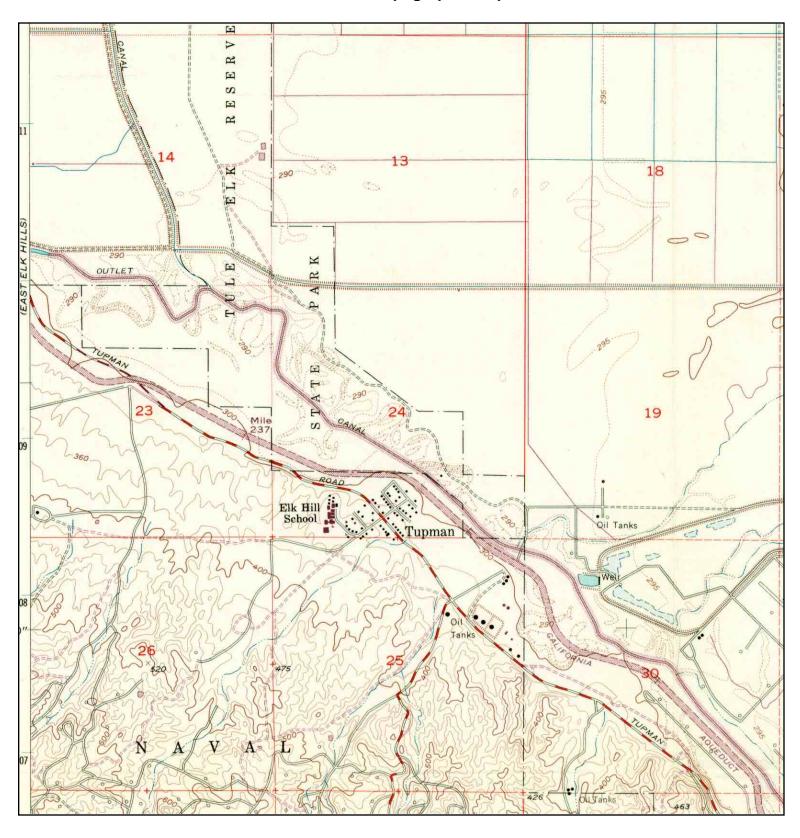
N TARGET QUAD NAME: TUPM

NAME: TUPMAN MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276 LAT/LONG: 35.304 / 119.355





TARGET QUAD

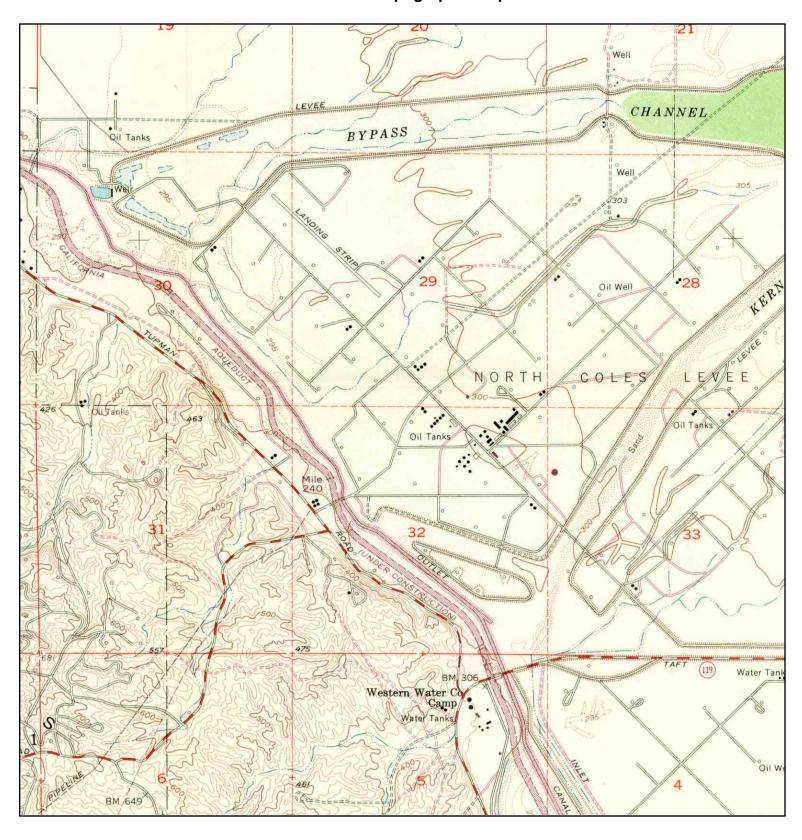
NAME: TUPMAN MAP YEAR: 1968

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276 LAT/LONG: 35.304 / 119.355





TARGET QUAD
NAME: TUPMAN
MAP YEAR: 1968

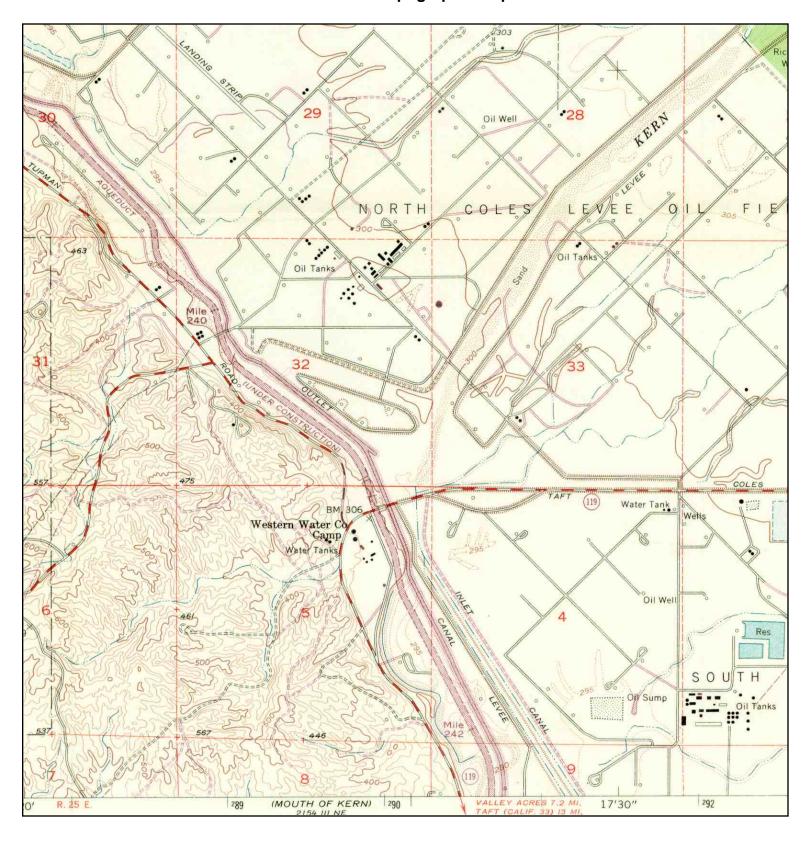
PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355



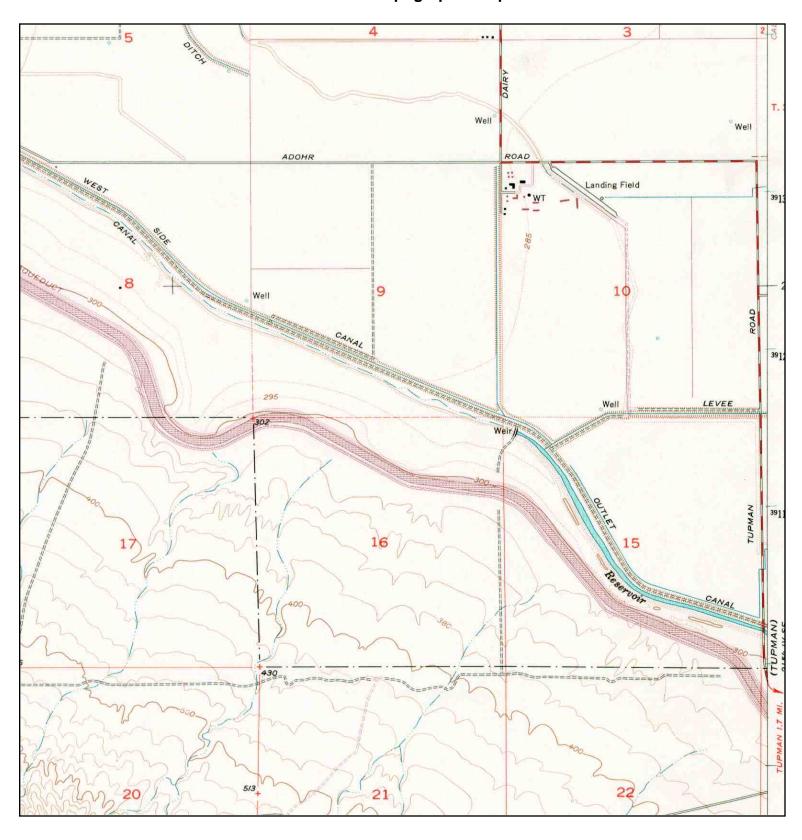
N TARGET QUAD NAME: TUPMAN MAP YEAR: 1968

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276 LAT/LONG: 35.304 / 119.355





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

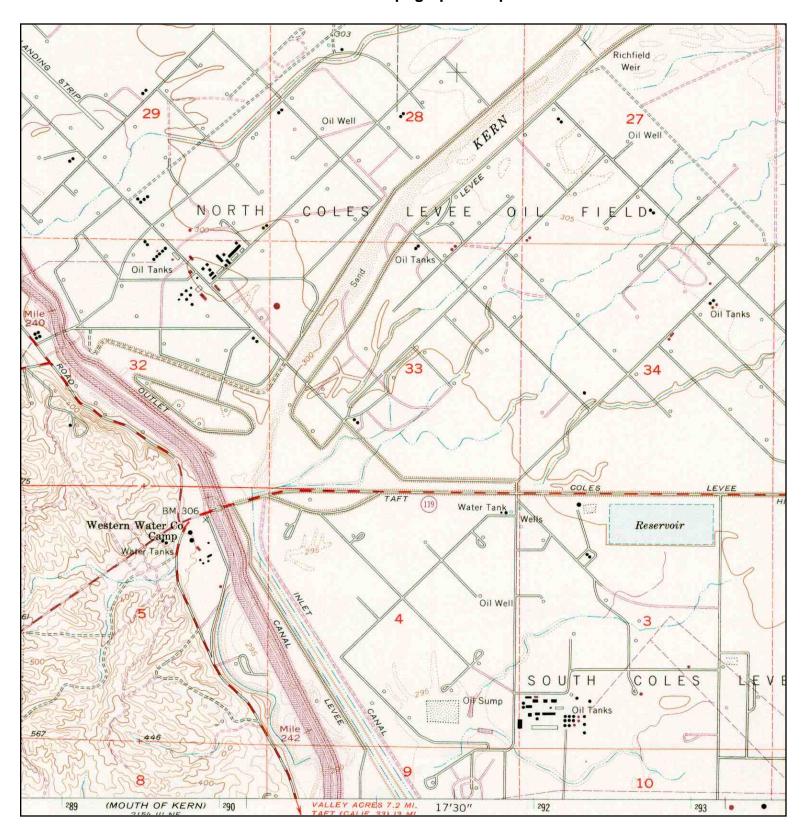
PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276

LAT/LONG: 35.304 / 119.355





TARGET QUAD NAME: TUPM

NAME: TUPMAN MAP YEAR: 1973

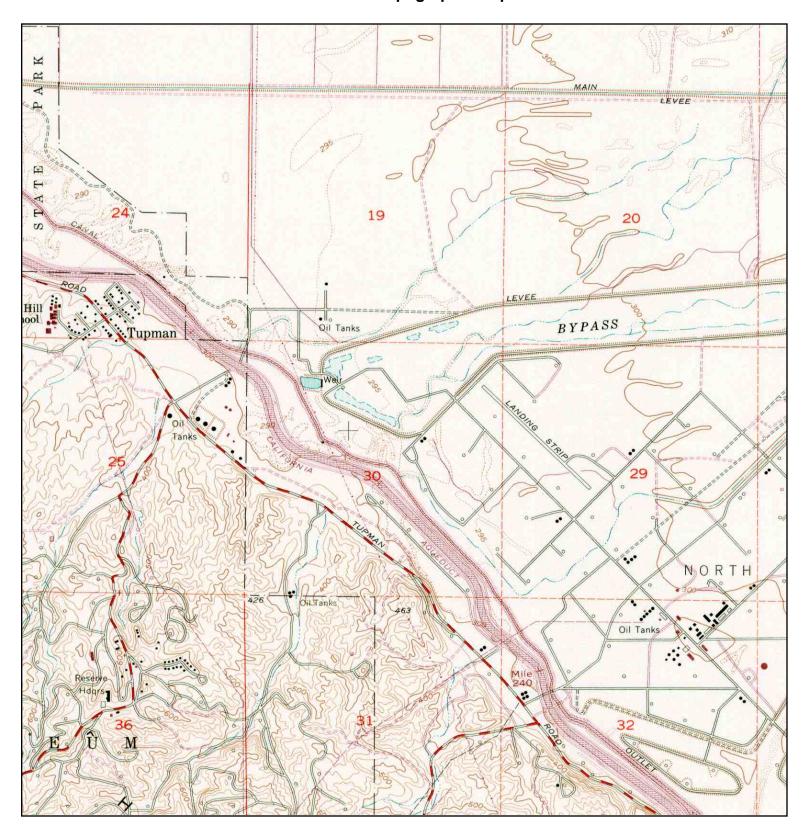
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SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

LAT/LONG:

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276 35.304 / 119.355





TARGET QUAD NAME: TUPMAN

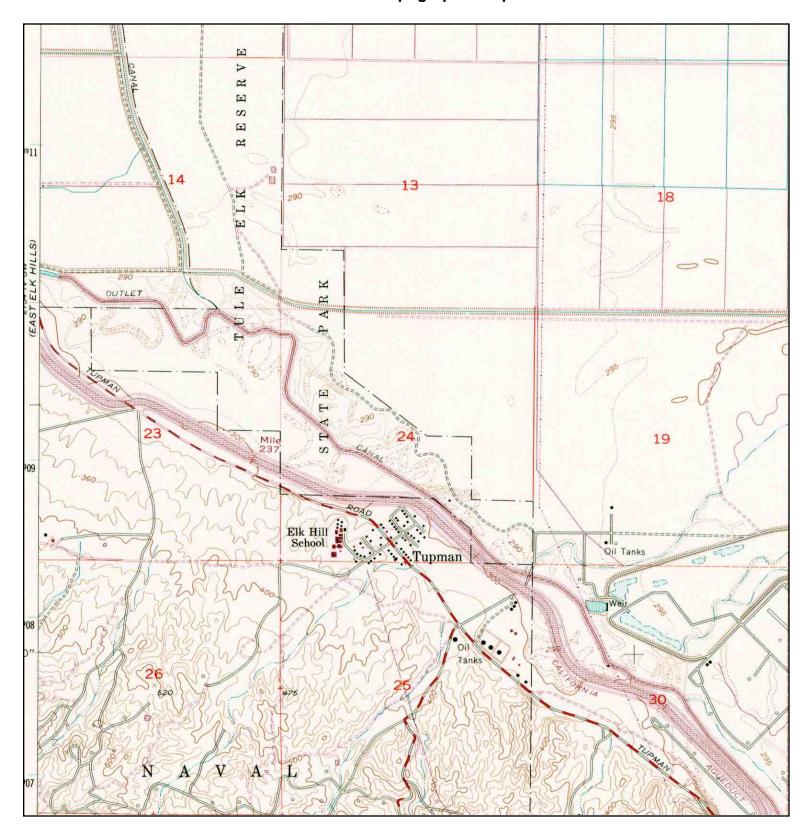
MAP YEAR: 1973

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276 LAT/LONG: 35.304 / 119.355





TARGET QUAD NAME: TUPMAN

MAP YEAR: 1973

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Tupman, CA 93276 LAT/LONG: 35.304 / 119.355

HECA

Dairy Road/Adohr Road Buttonwillow, CA 93206

Inquiry Number: 2755371.4

April 27, 2010

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

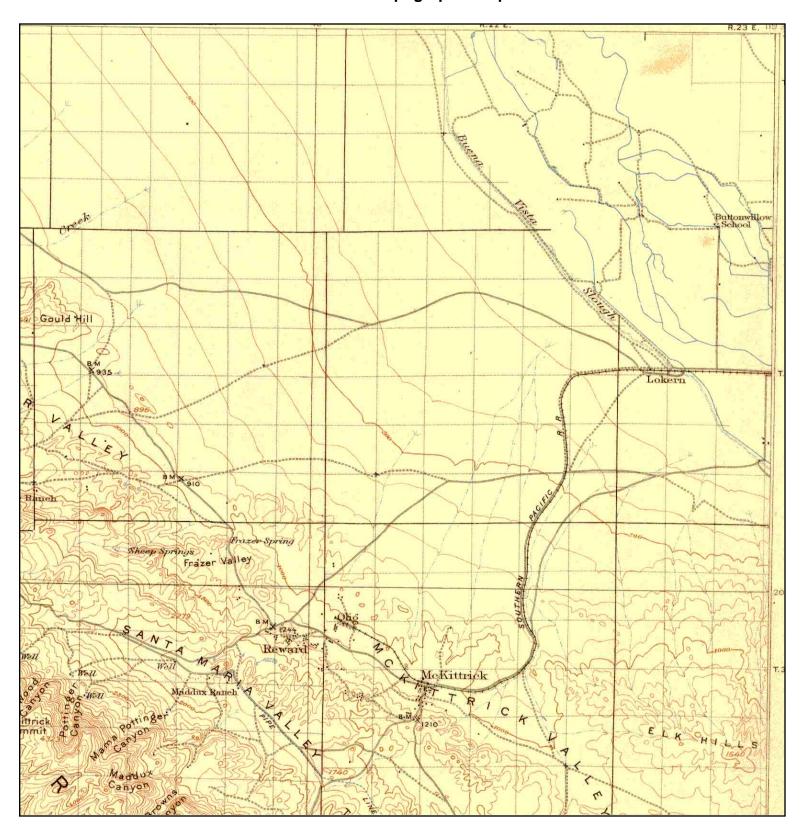
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TARGET QUAD

NAME: MCKITTRICK

MAP YEAR: 1912

SERIES: 30

SCALE: 1:125000

SITE NAME: HECA

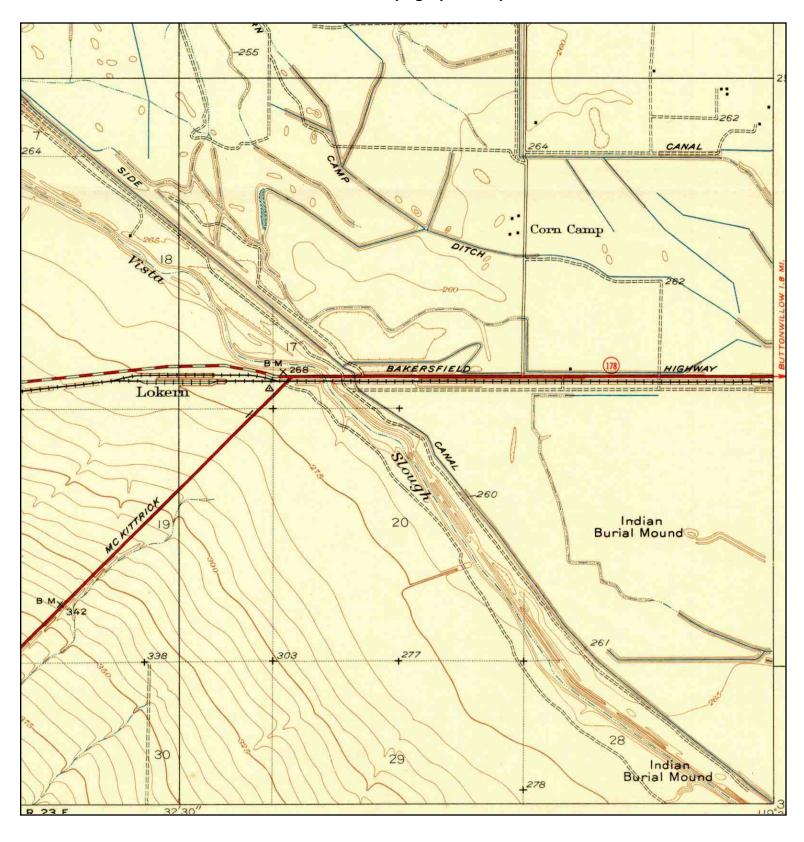
ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4

RESEARCH DATE: 04/27/2010





TARGET QUAD NAME: LOKERN

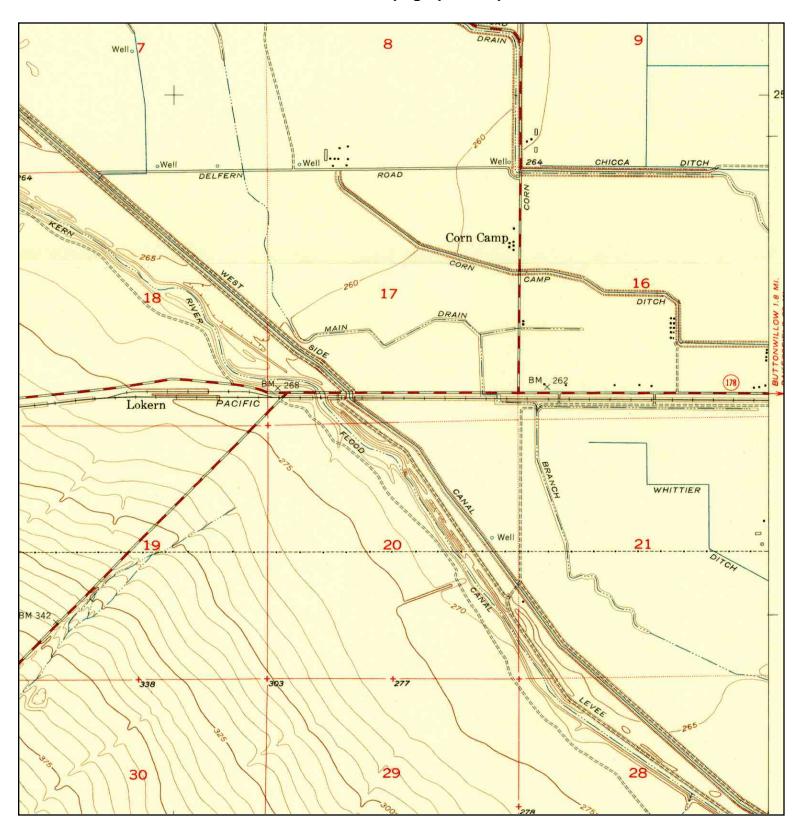
MAP YEAR: 1950

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD NAME: LOKE

NAME: LOKERN MAP YEAR: 1954

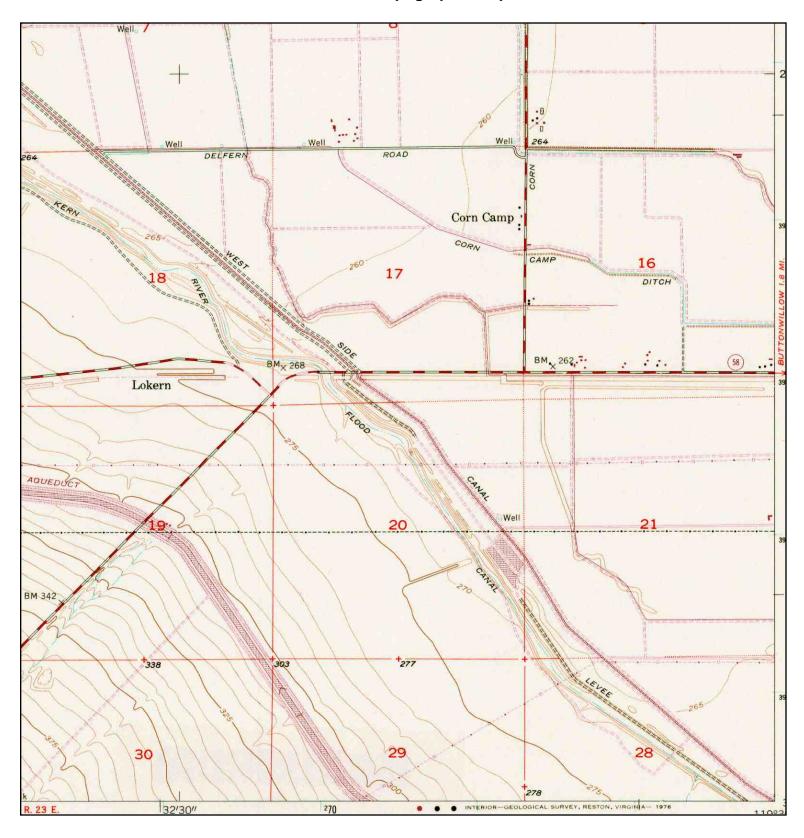
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4





TARGET QUAD NAME: LOKERN MAP YEAR: 1973

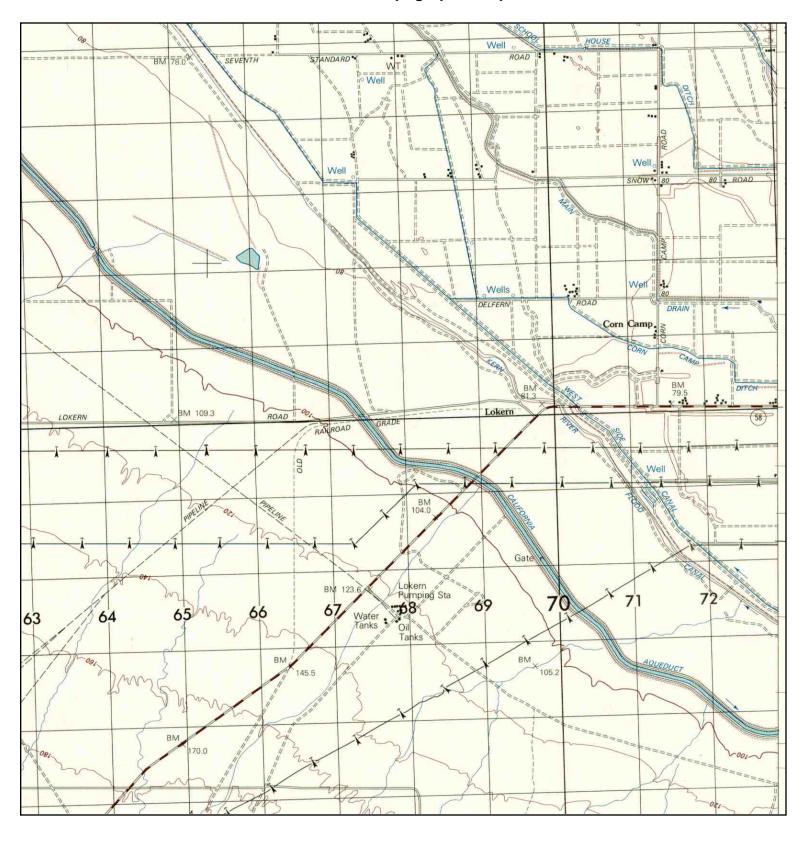
PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD

NAME: MCKITTRICK

MAP YEAR: 1979

SERIES: 15 SCALE: 1:50000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4

HECA

Dairy Road/Adohr Road Buttonwillow, CA 93206

Inquiry Number: 2755371.4

May 07, 2010

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

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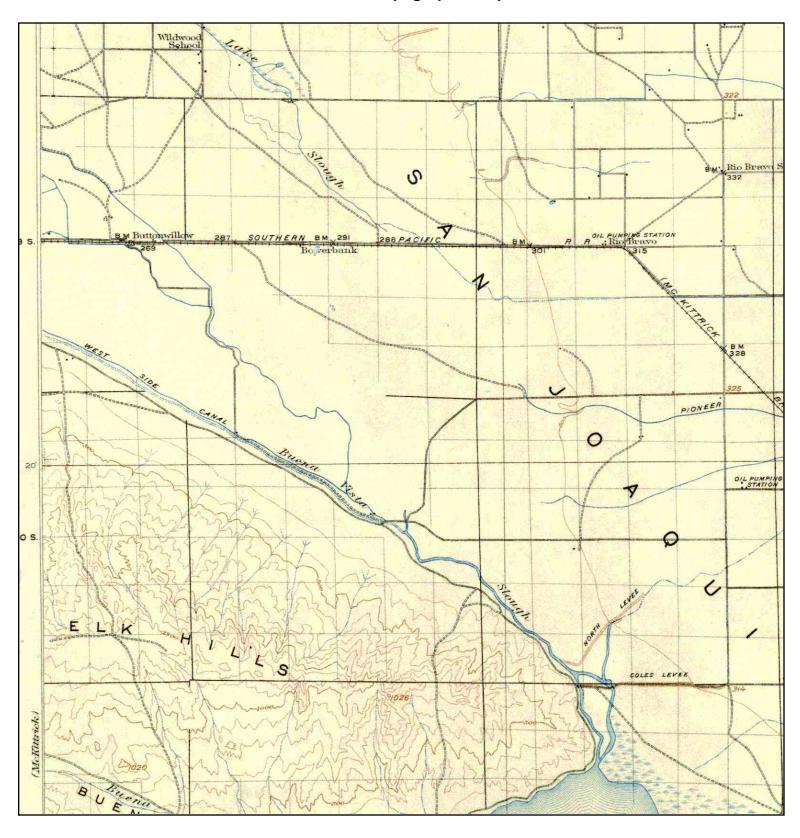
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TARGET QUAD

NAME: BUENA VISTA LAKE

MAP YEAR: 1912

SERIES: 30

SCALE: 1:125000

SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4





TARGET QUAD

NAME: MCKITTRICK

MAP YEAR: 1912

SERIES: 30

SCALE: 1:125000

SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani

INQUIRY#: 2755371.4 RESEARCH DATE: 05/07/2010





TARGET QUAD

NAME: WEST ELK HILLS

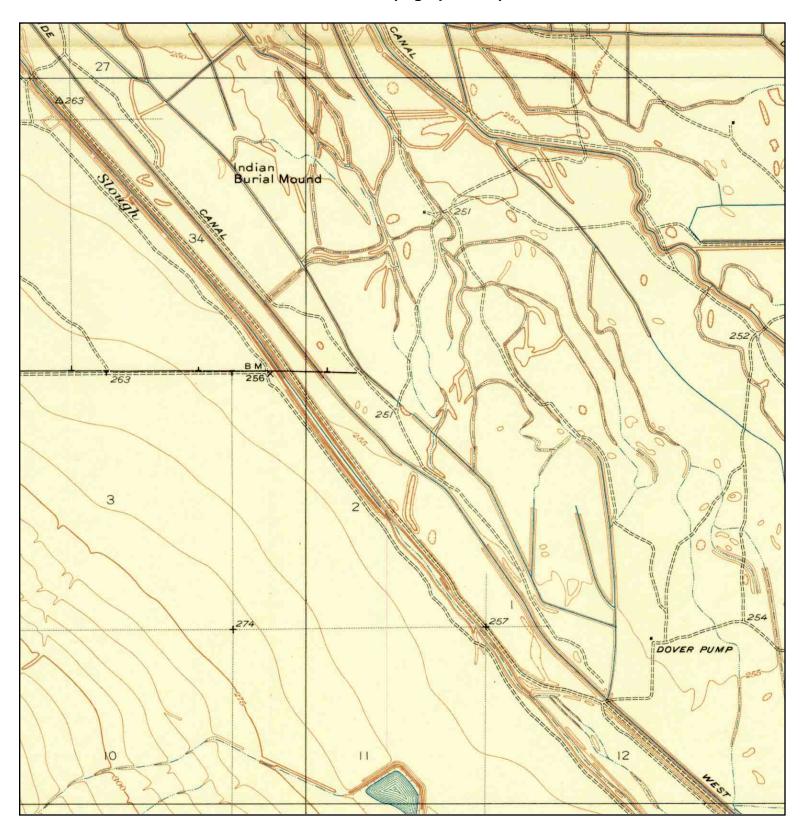
MAP YEAR: 1932

SERIES: 7.5 SCALE: 1:31680 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD NAME: LOKERN

MAP YEAR: 1950

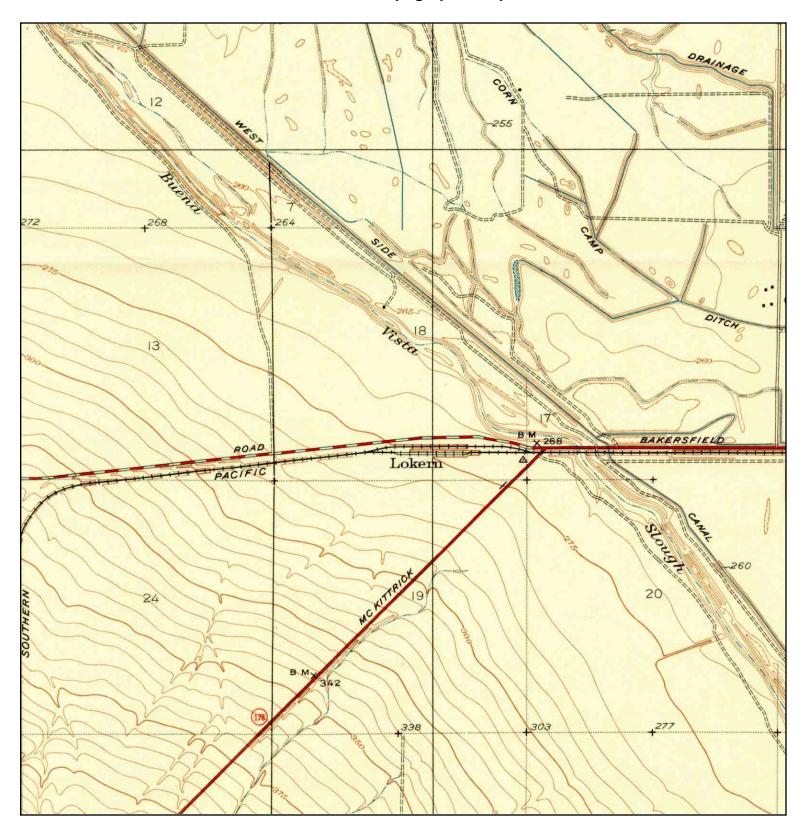
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755371.4





TARGET QUAD NAME: LOKERN

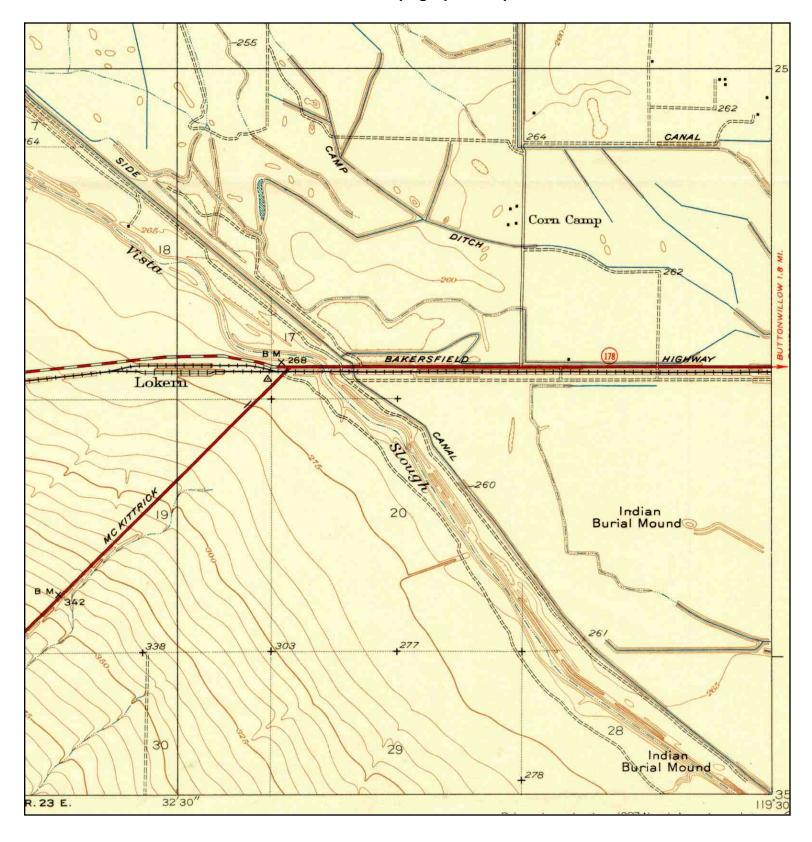
MAP YEAR: 1950

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD NAME: LOKERN

MAP YEAR: 1950

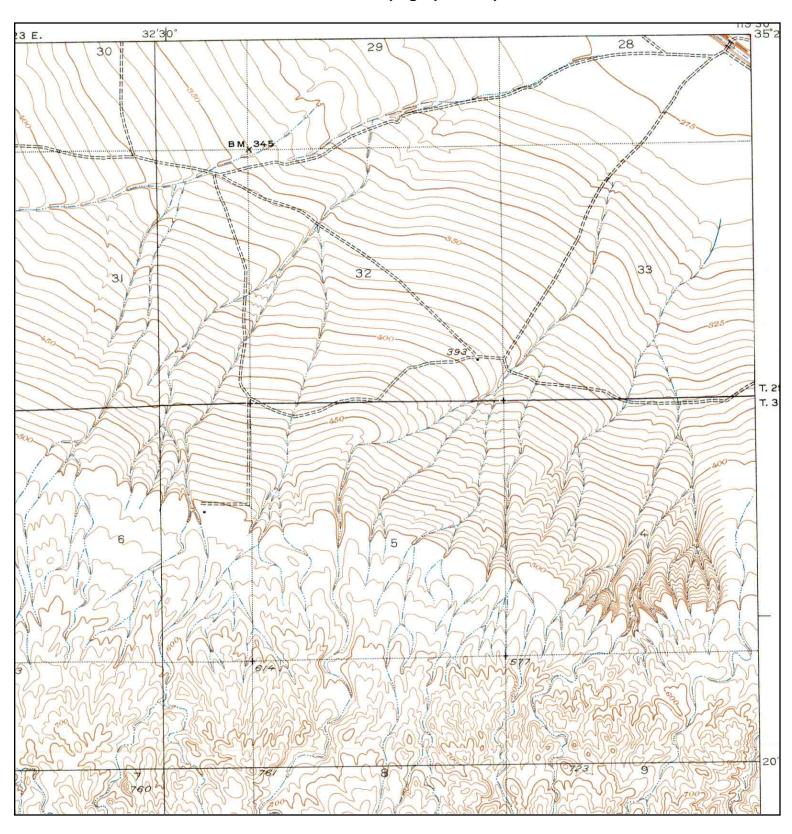
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4





TARGET QUAD

NAME: WEST ELK HILLS

MAP YEAR: 1950

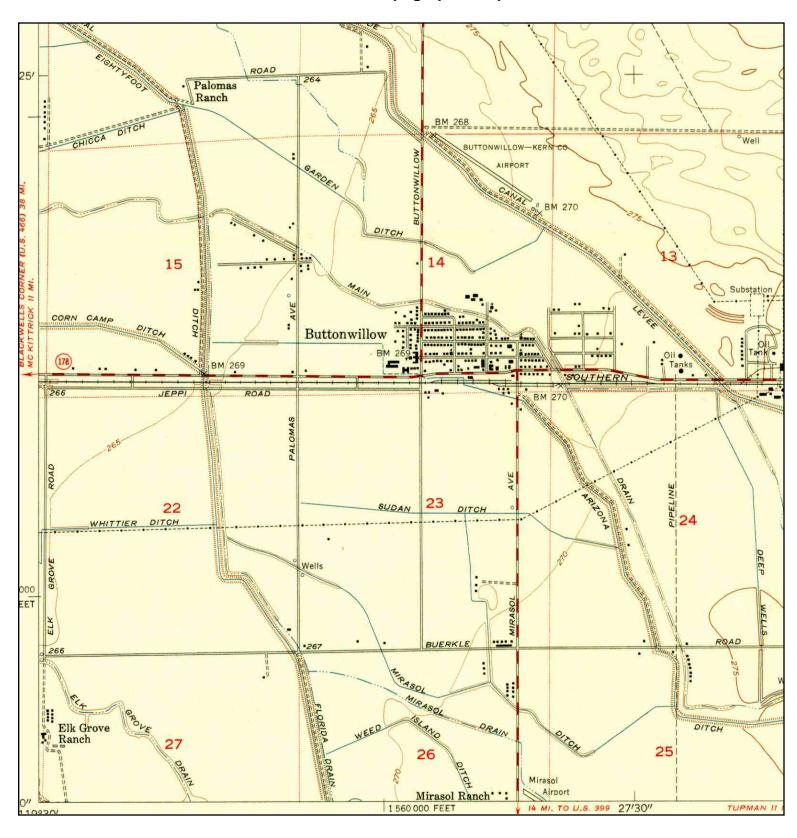
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: **URS** Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4





TARGET QUAD

NAME: BUTTONWILLOW

MAP YEAR: 1954

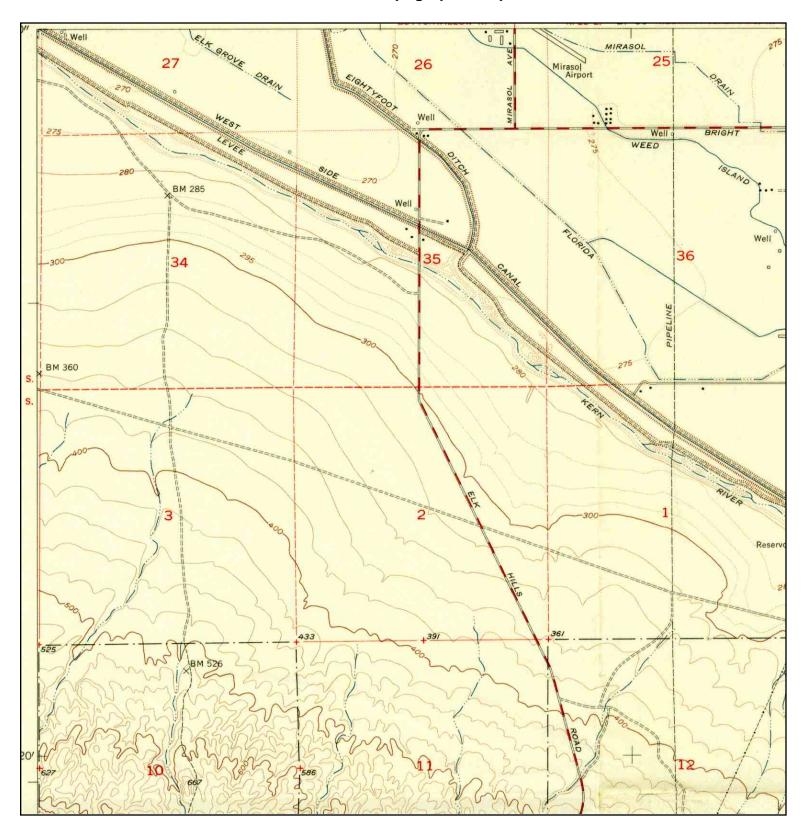
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755371.4





TARGET QUAD

NAME: EAST ELK HILLS

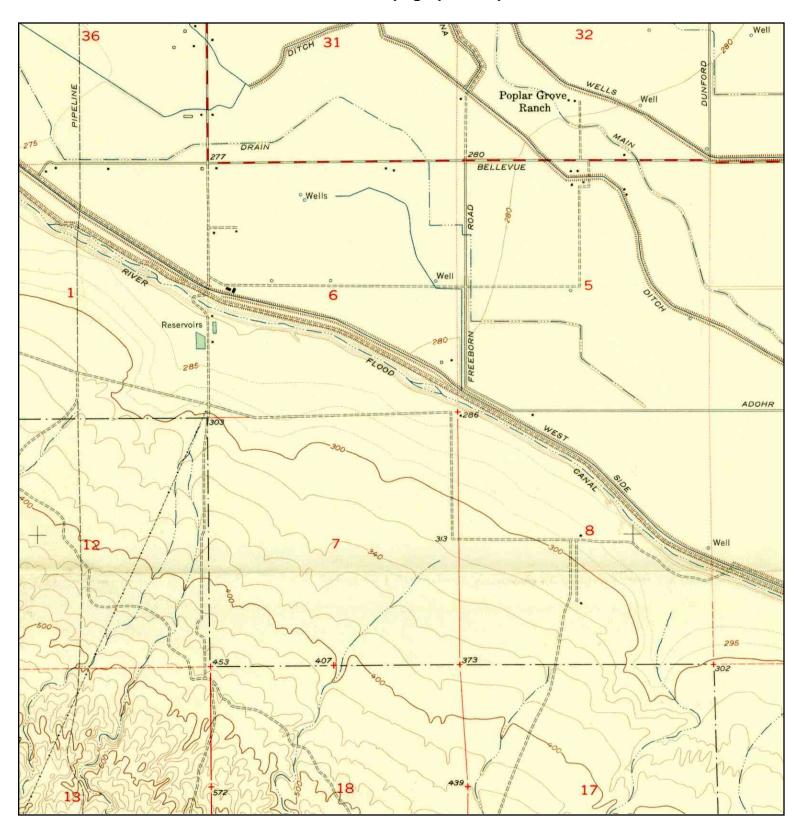
MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1954

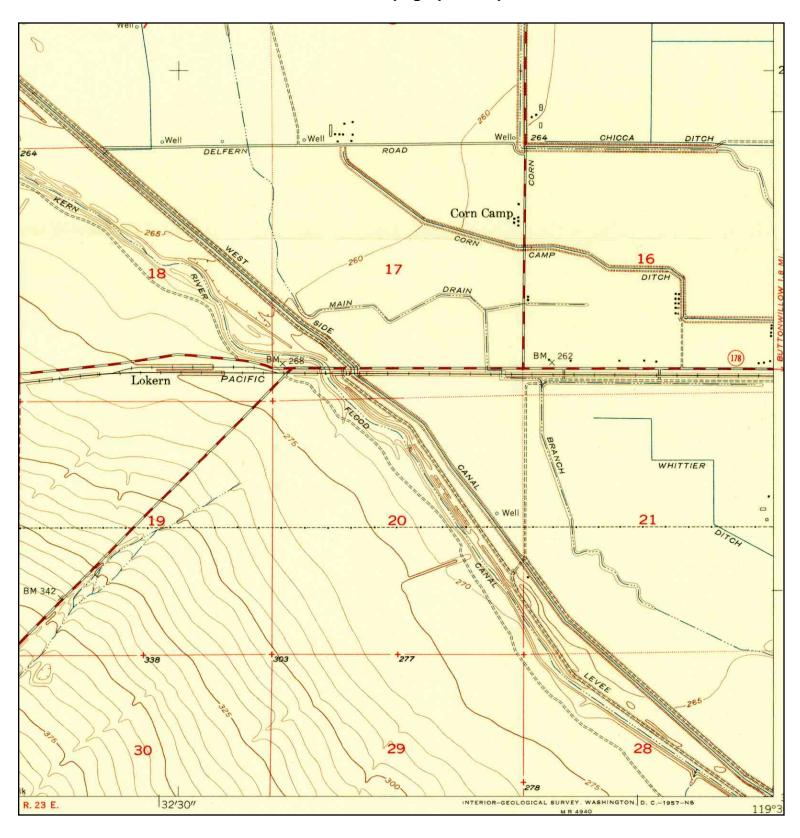
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

35.3968 / 119.5257 LAT/LONG:

CLIENT: **URS** Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4





TARGET QUAD

NAME: LOKERN

MAP YEAR: 1954

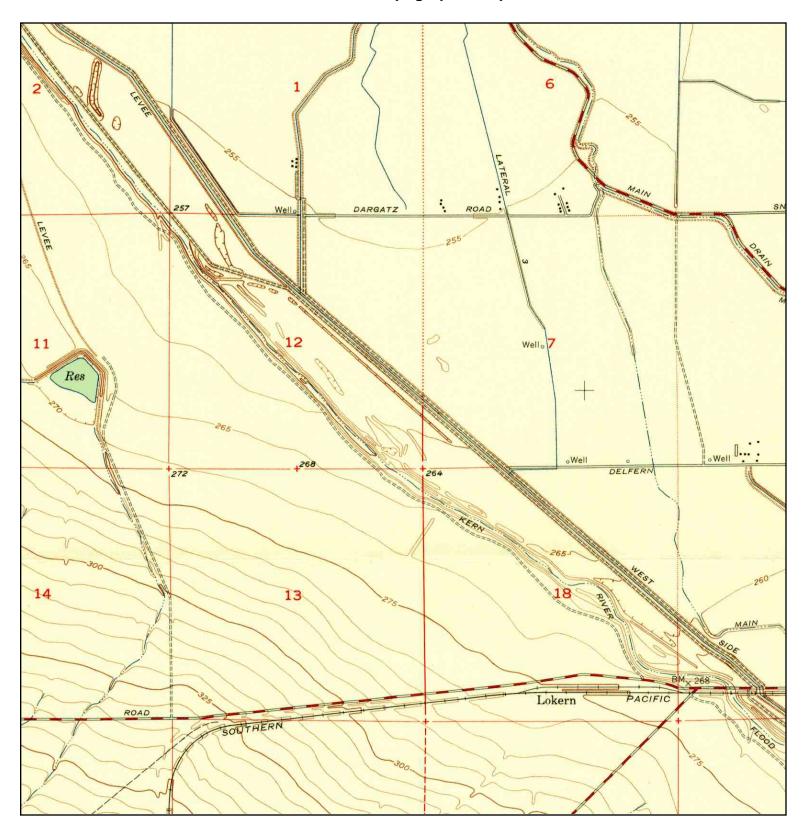
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755371.4





TARGET QUAD NAME: LOKERN

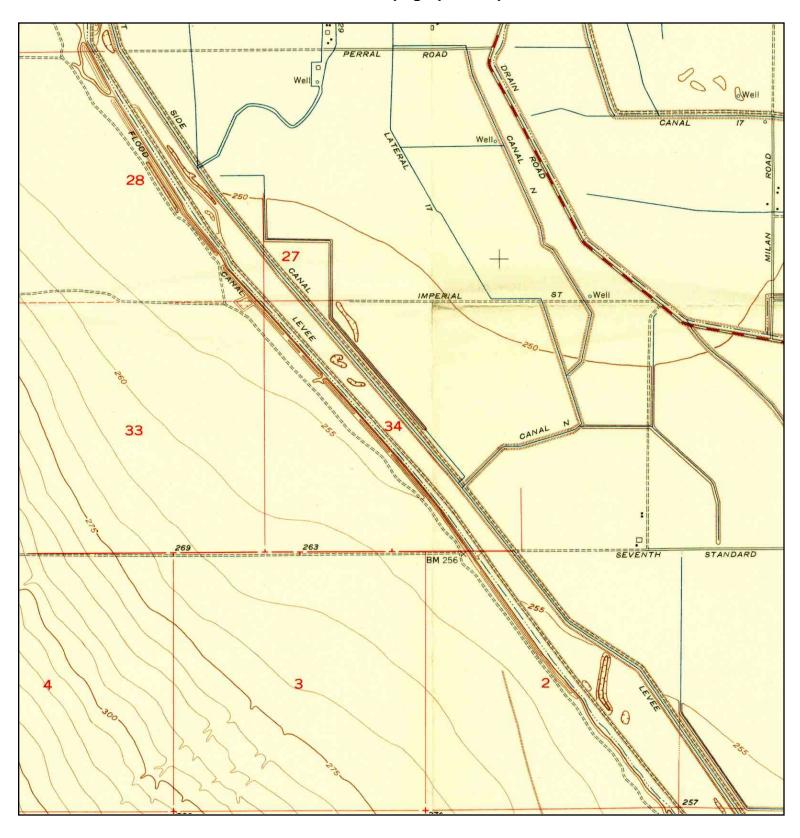
MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD

NAME: LOKERN MAP YEAR: 1954

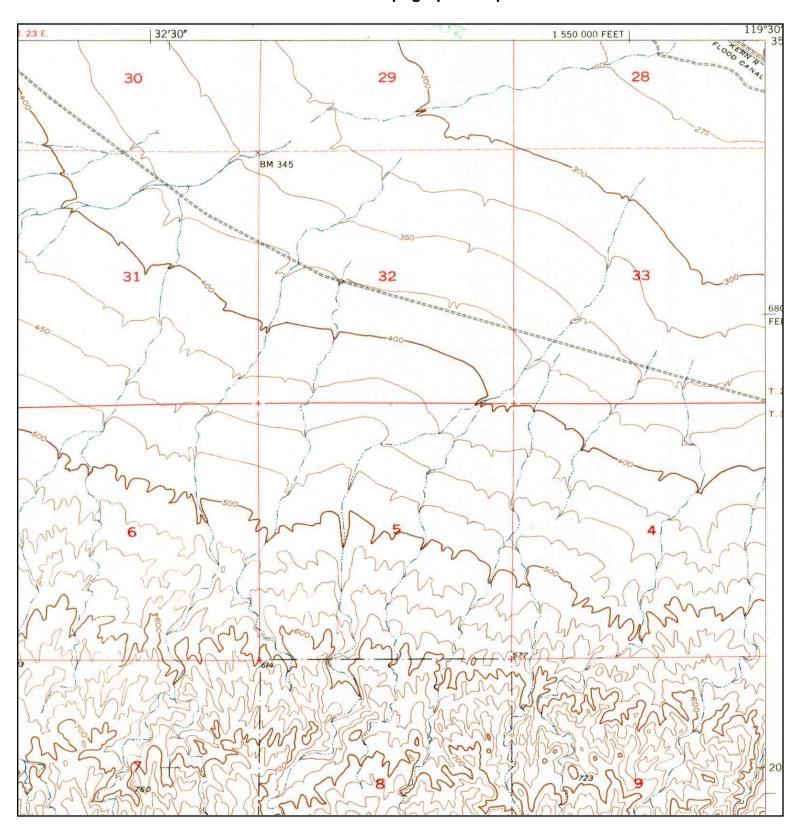
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation CONTACT: Kali Futnani INQUIRY#: 2755371.4





TARGET QUAD

NAME: WEST ELK HILLS

MAP YEAR: 1954

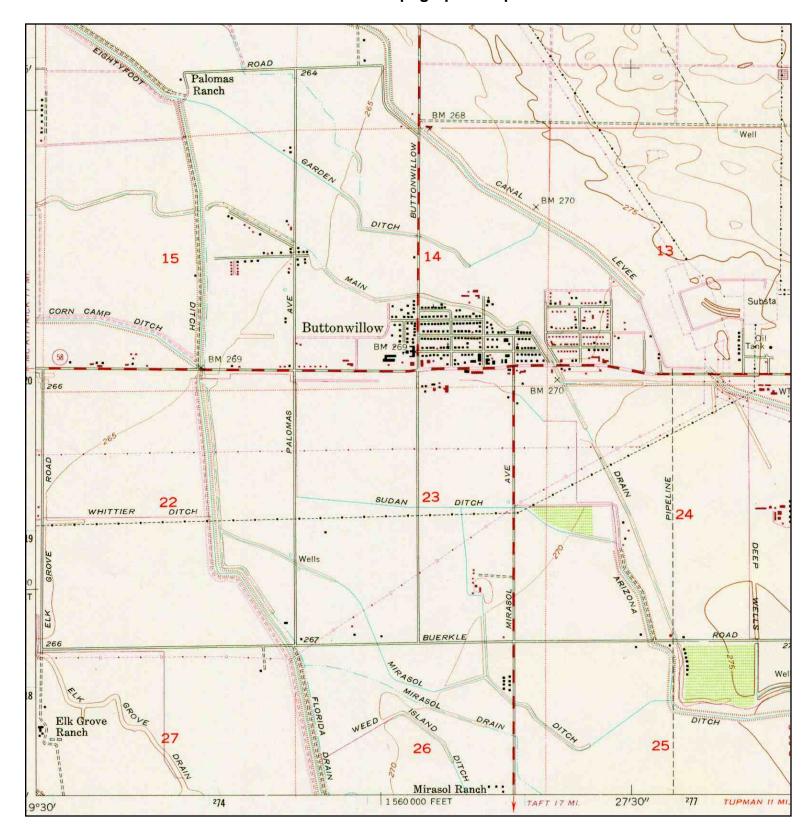
SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

CLIENT: URS Corporation
CONTACT: Kali Futnani
INQUIRY#: 2755371.4





TARGET QUAD

NAME: BUTTONWILLOW

MAP YEAR: 1973

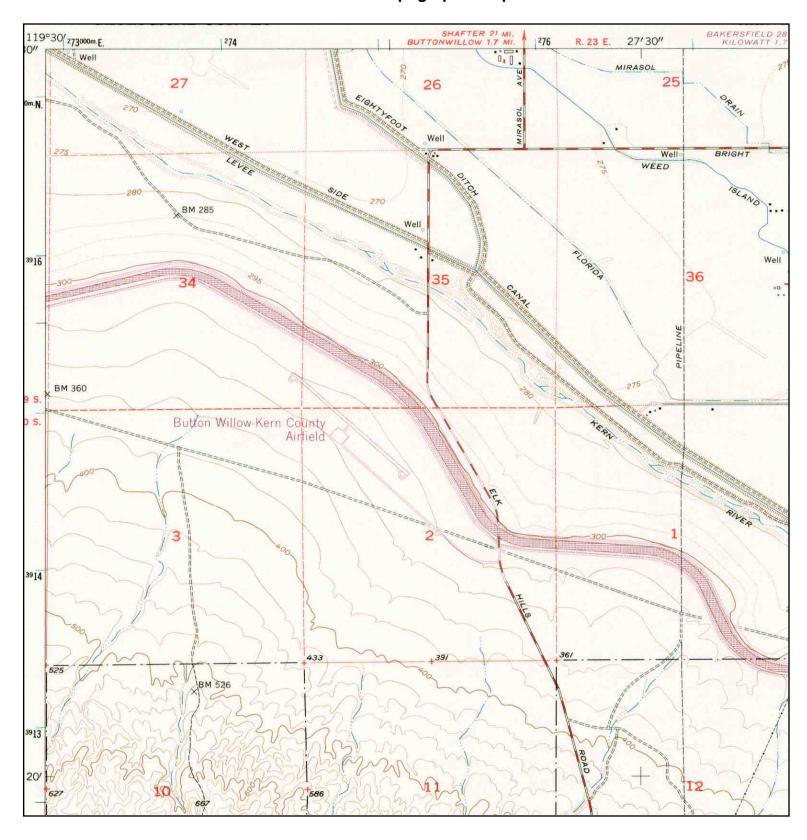
PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

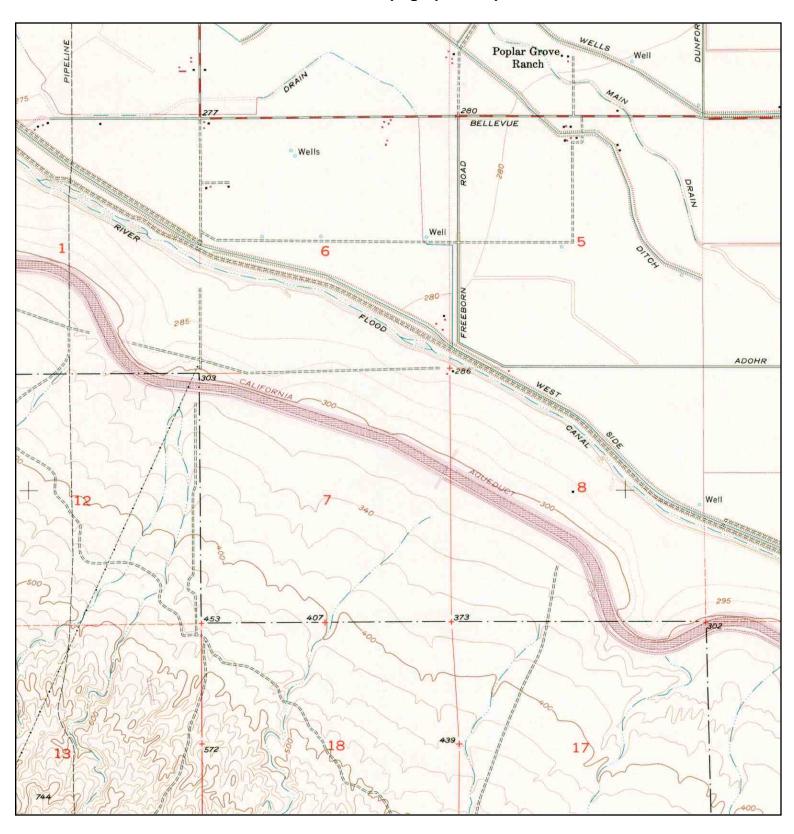
PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257





TARGET QUAD

NAME: EAST ELK HILLS

MAP YEAR: 1973

PHOTOREVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: HECA

ADDRESS: Dairy Road/Adohr Road

Buttonwillow, CA 93206

LAT/LONG: 35.3968 / 119.5257

ATTACHMENT B
HISTORICAL AERIAL PHOTOS

HECA

HECA

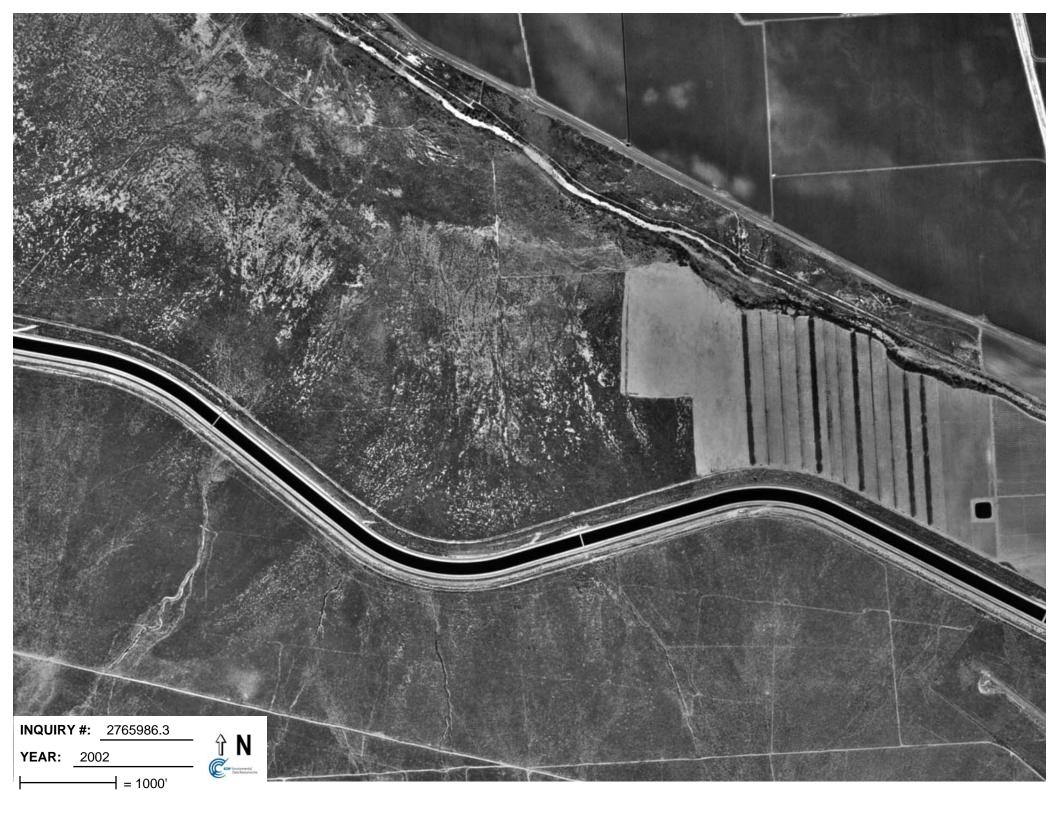
Buttonwillow, CA 93206

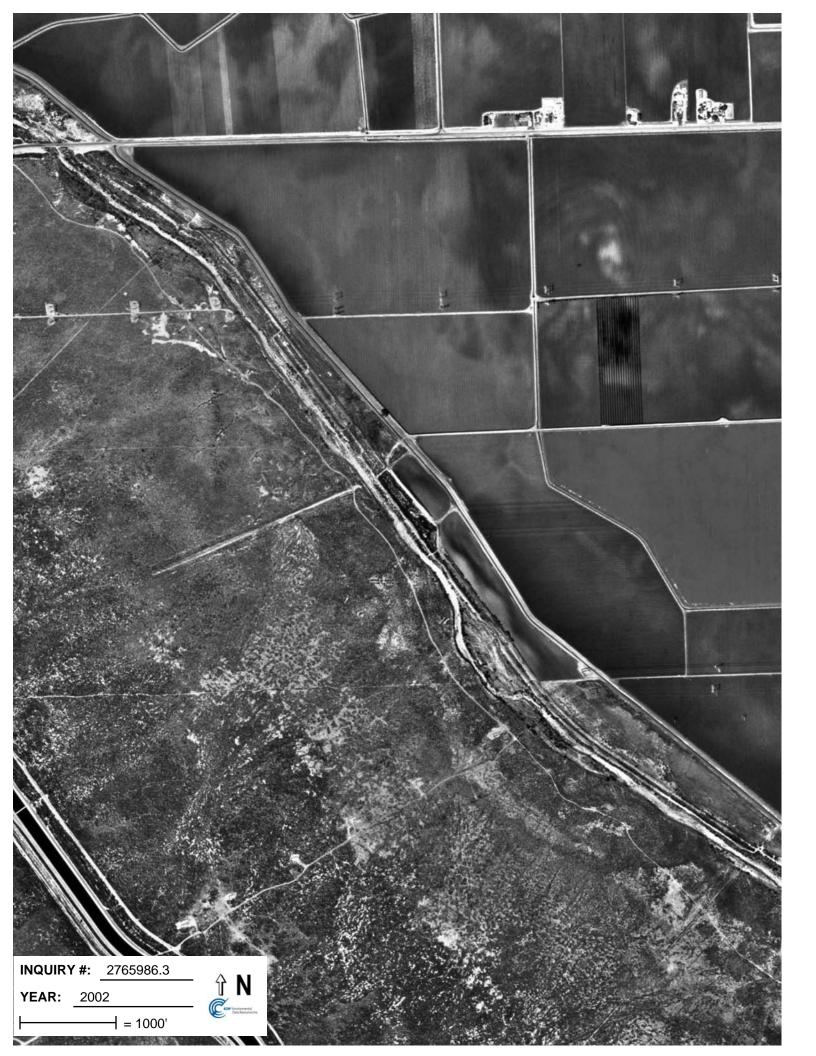
Inquiry Number: 2765986.3

May 12, 2010

The EDR Aerial Photo Decade Package











































































EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography May 12, 2010

Target Property:

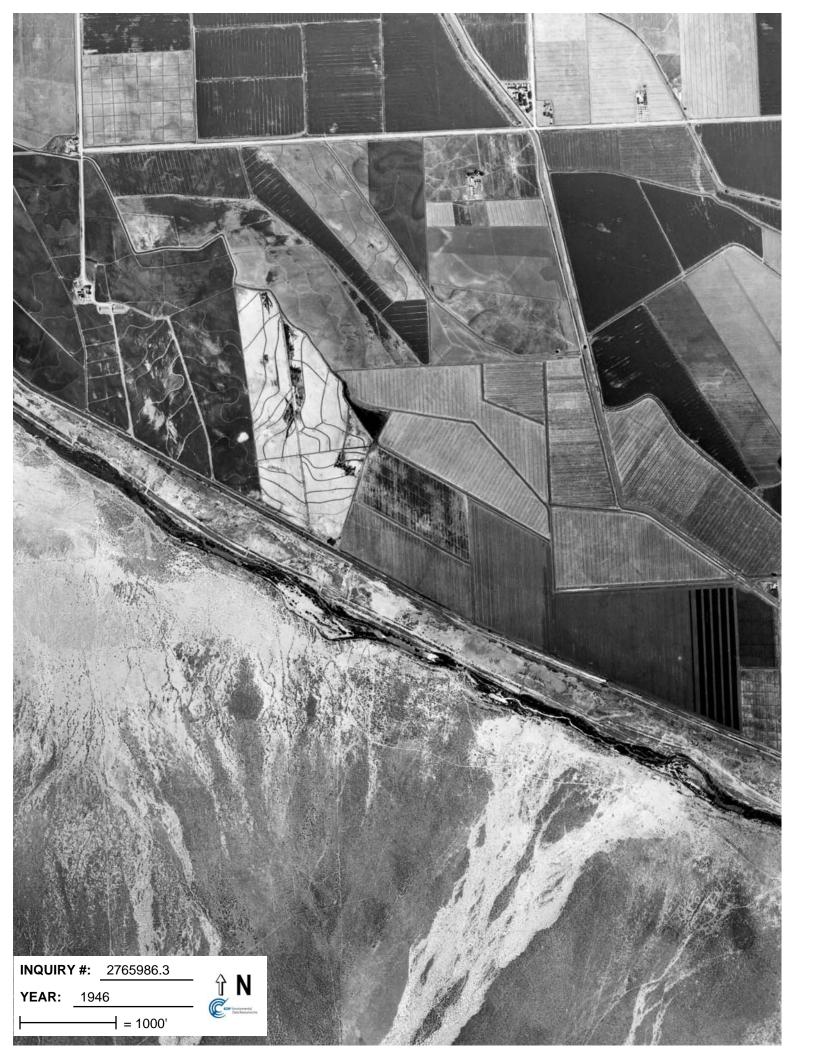
HECA

Buttonwillow, CA 93206

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
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1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA

Year 1975	Scale Aerial Photograph. Scale: 1"=1000'	Details Flight Year: 1975	Source NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
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1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
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1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
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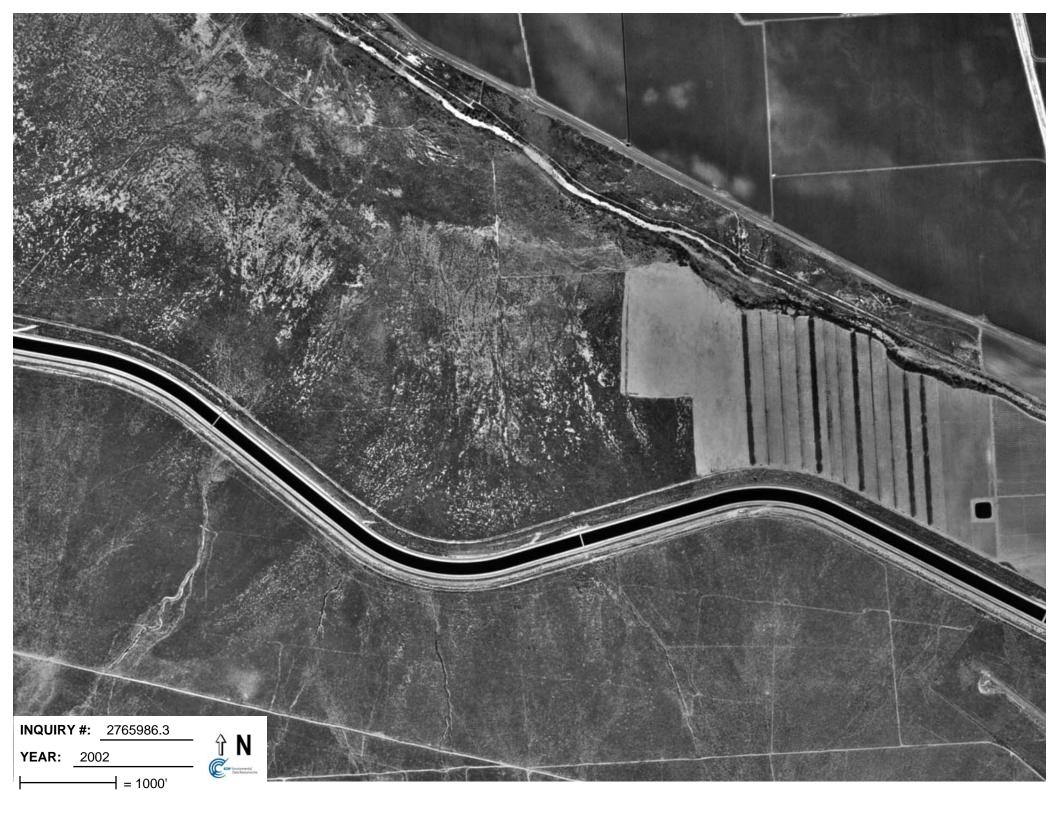


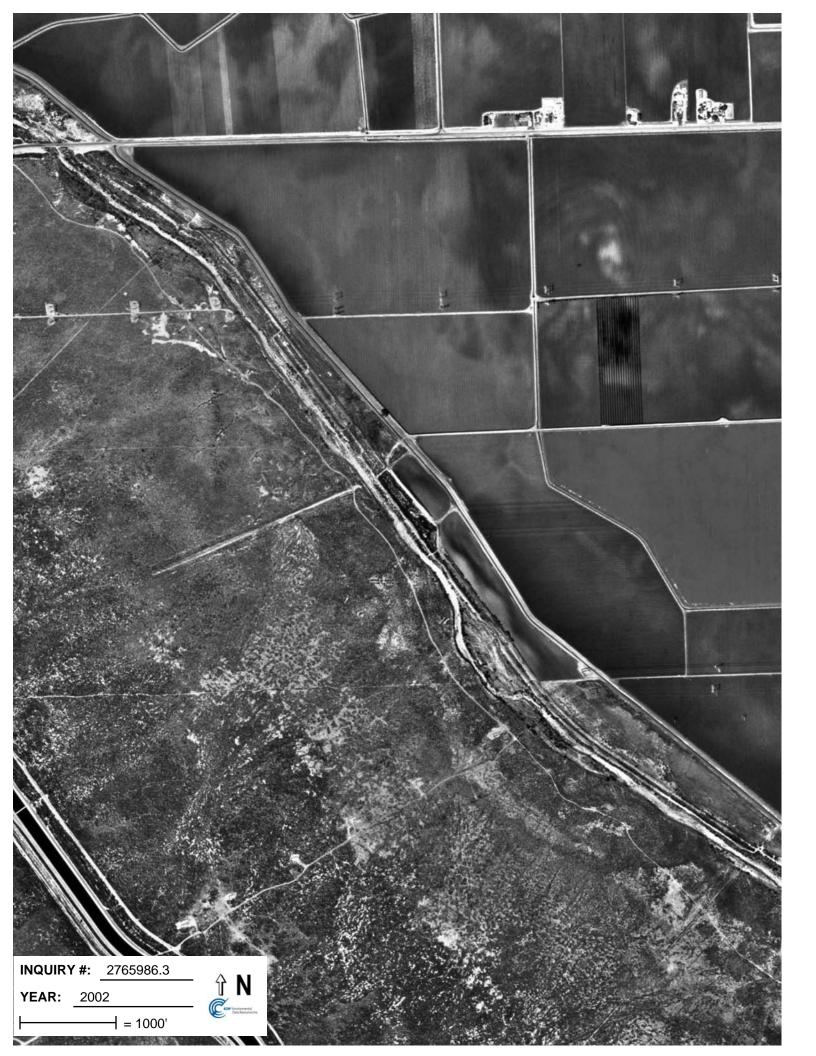
















HECA

Dairy /Adohr Rd Tupman, CA 93276

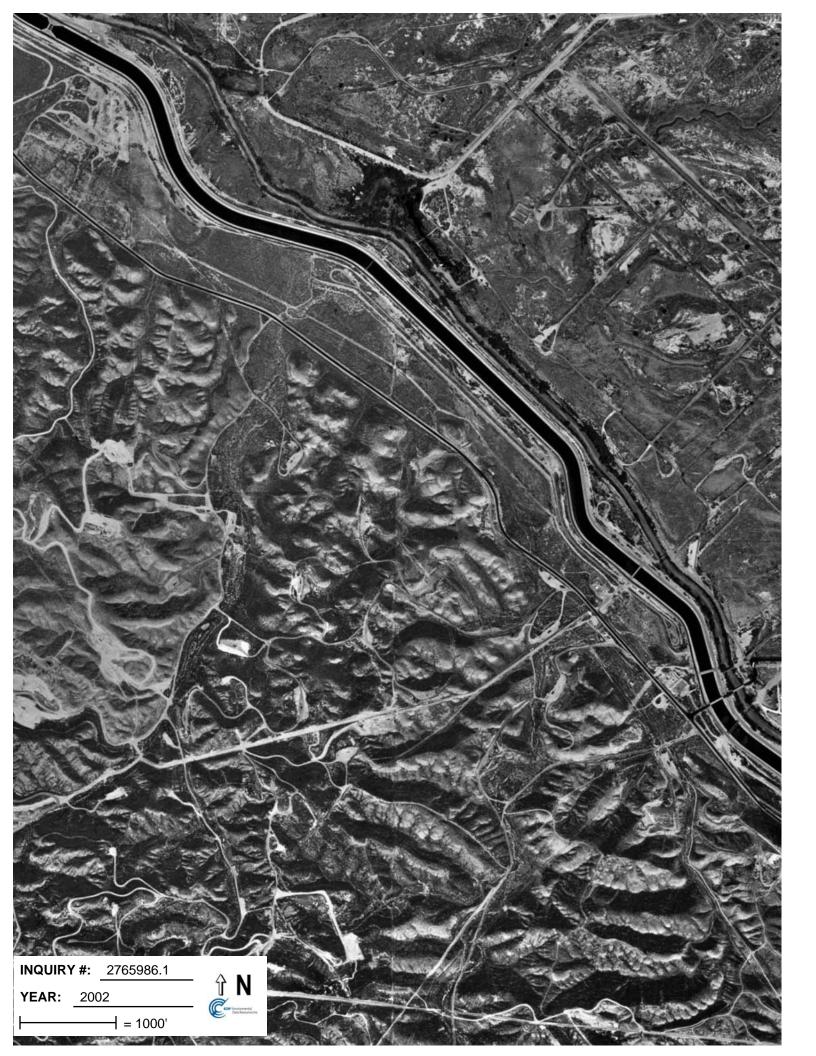
Inquiry Number: 2765986.1

May 12, 2010

The EDR Aerial Photo Decade Package









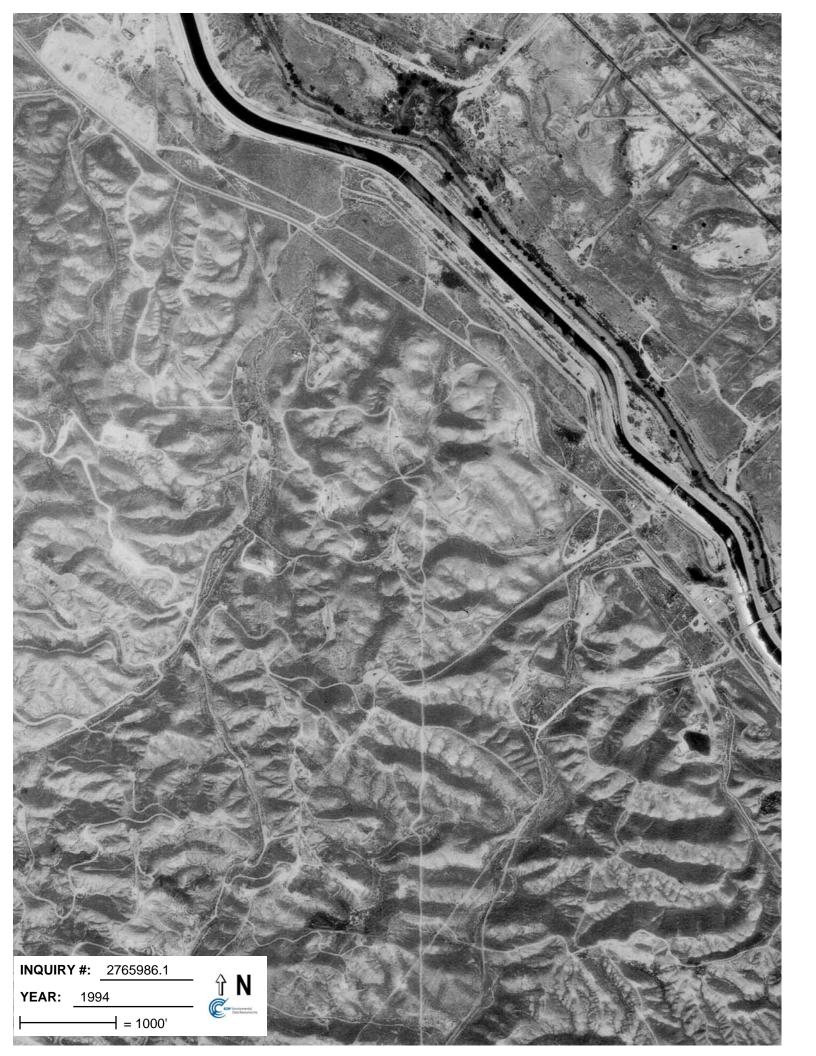


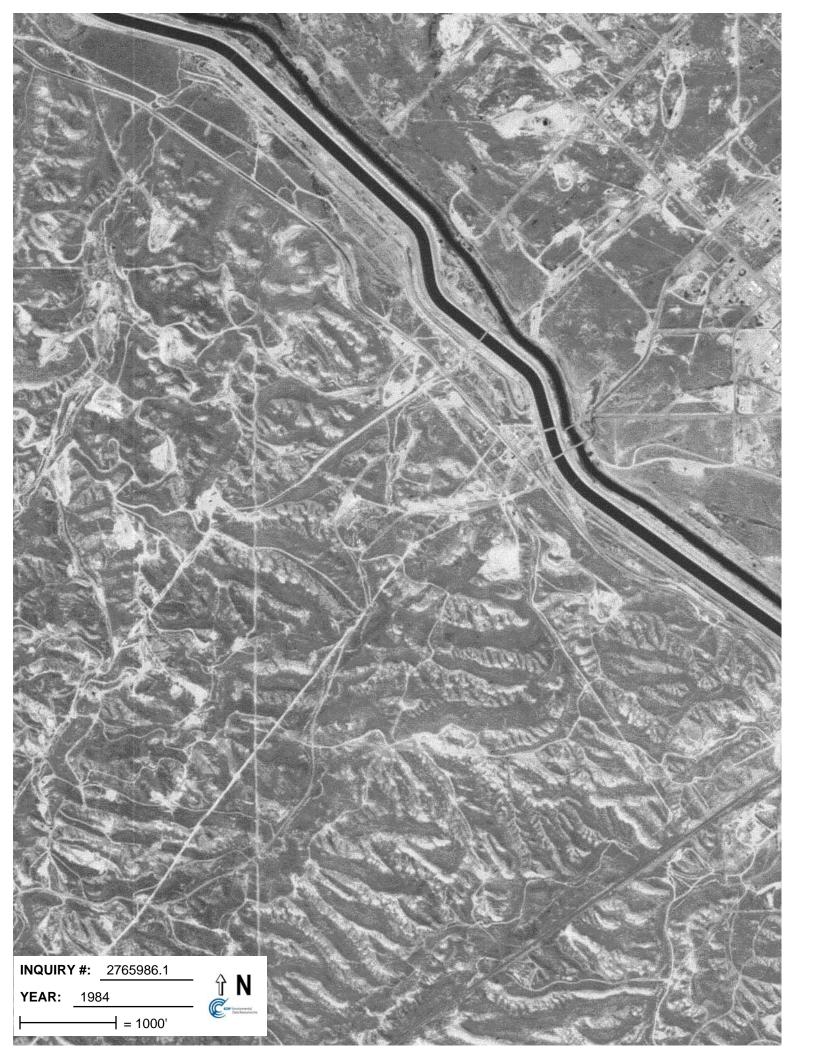




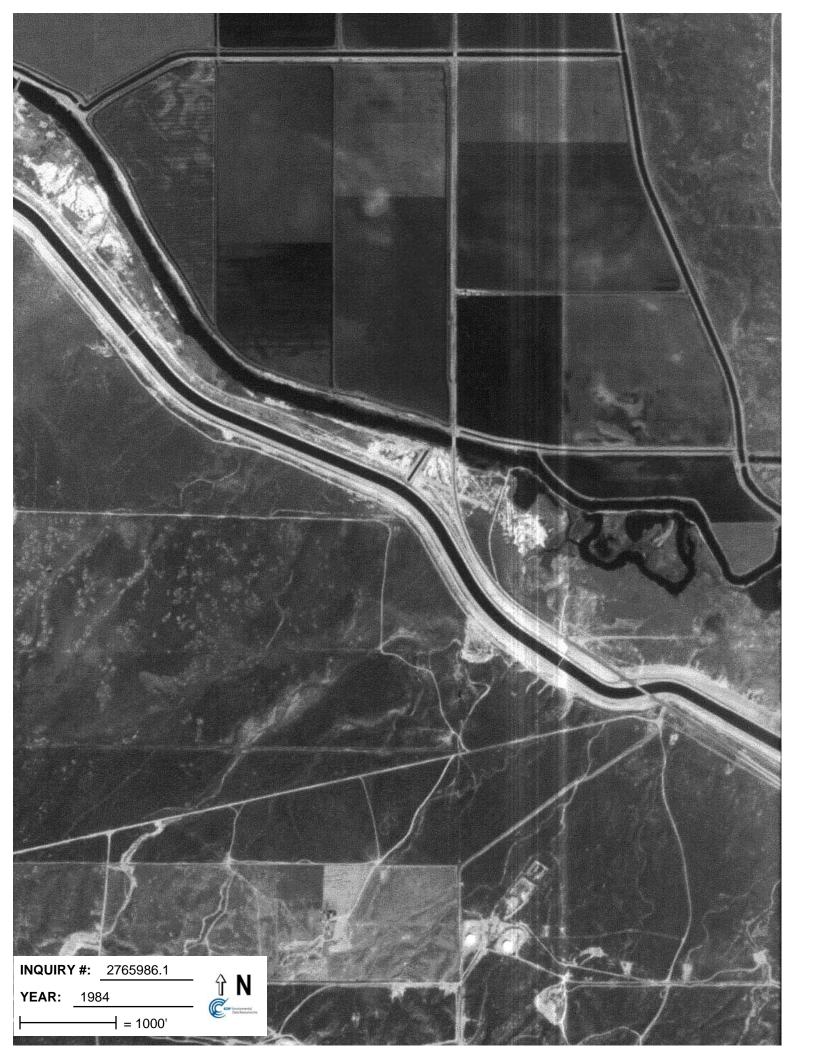












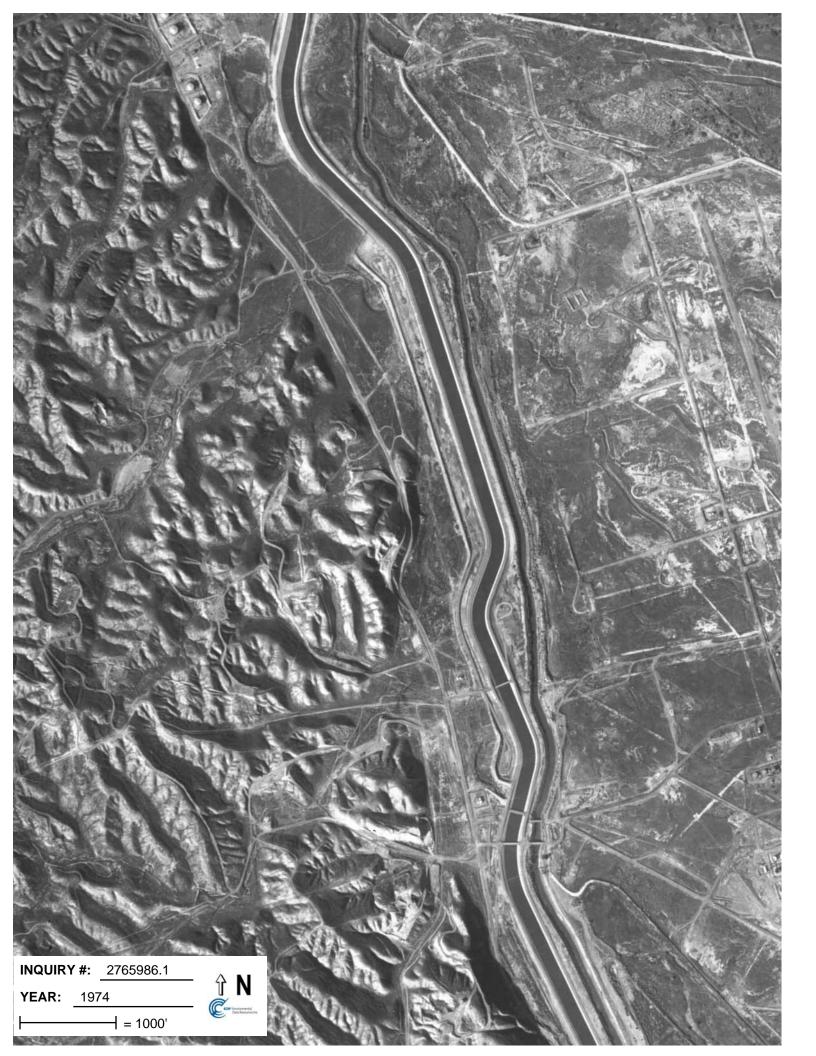


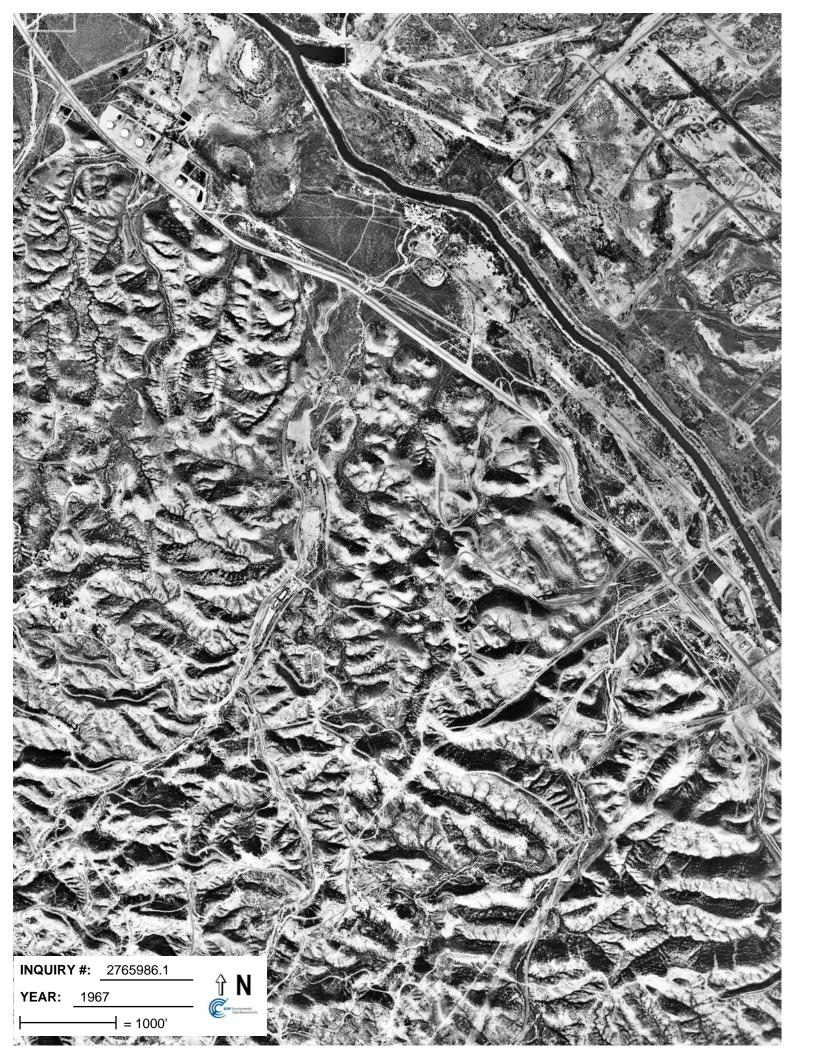


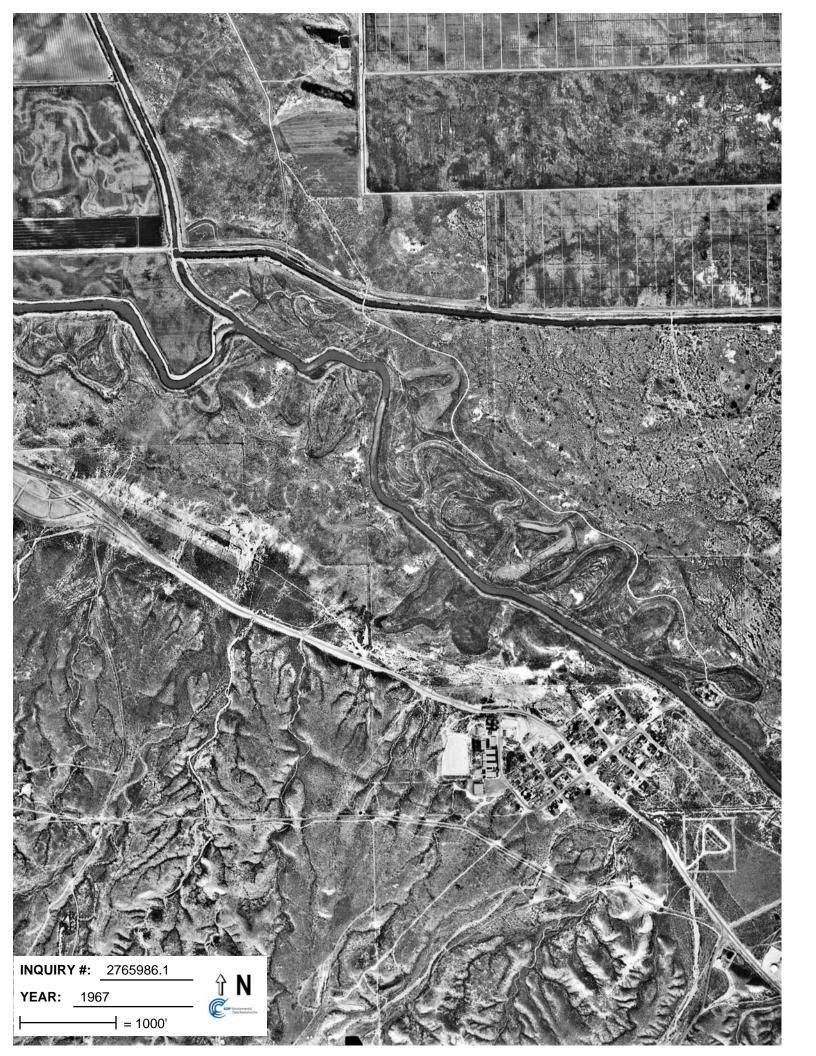






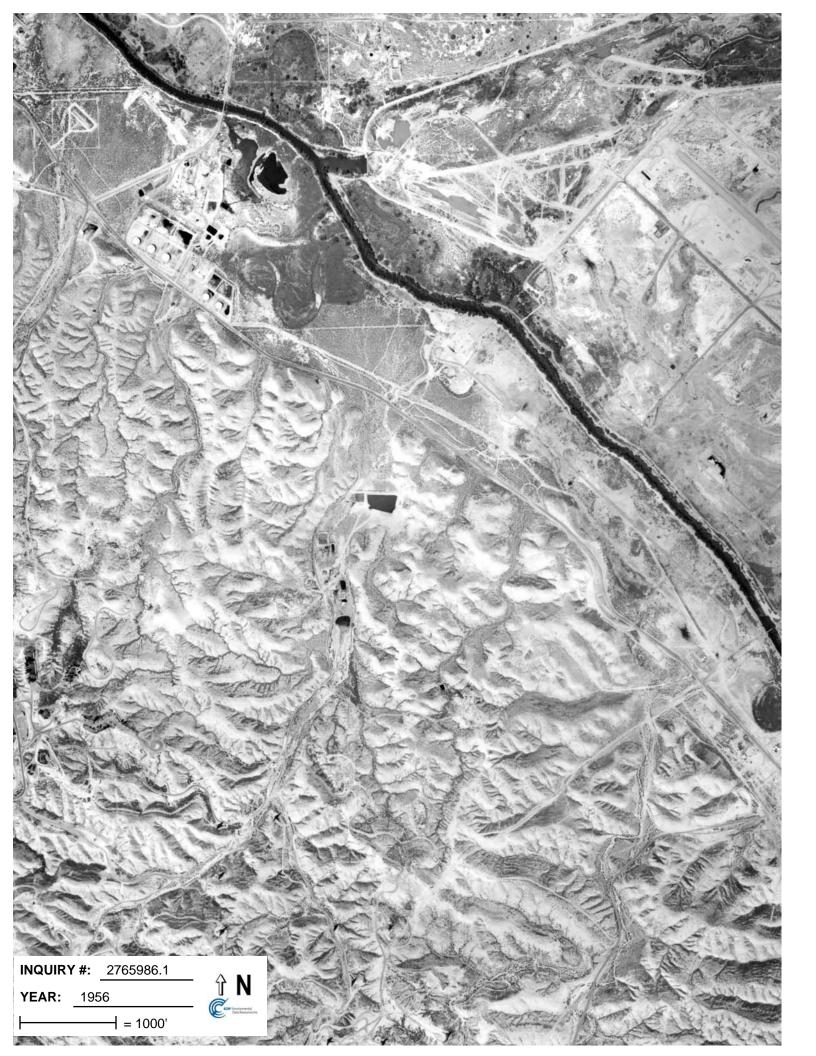


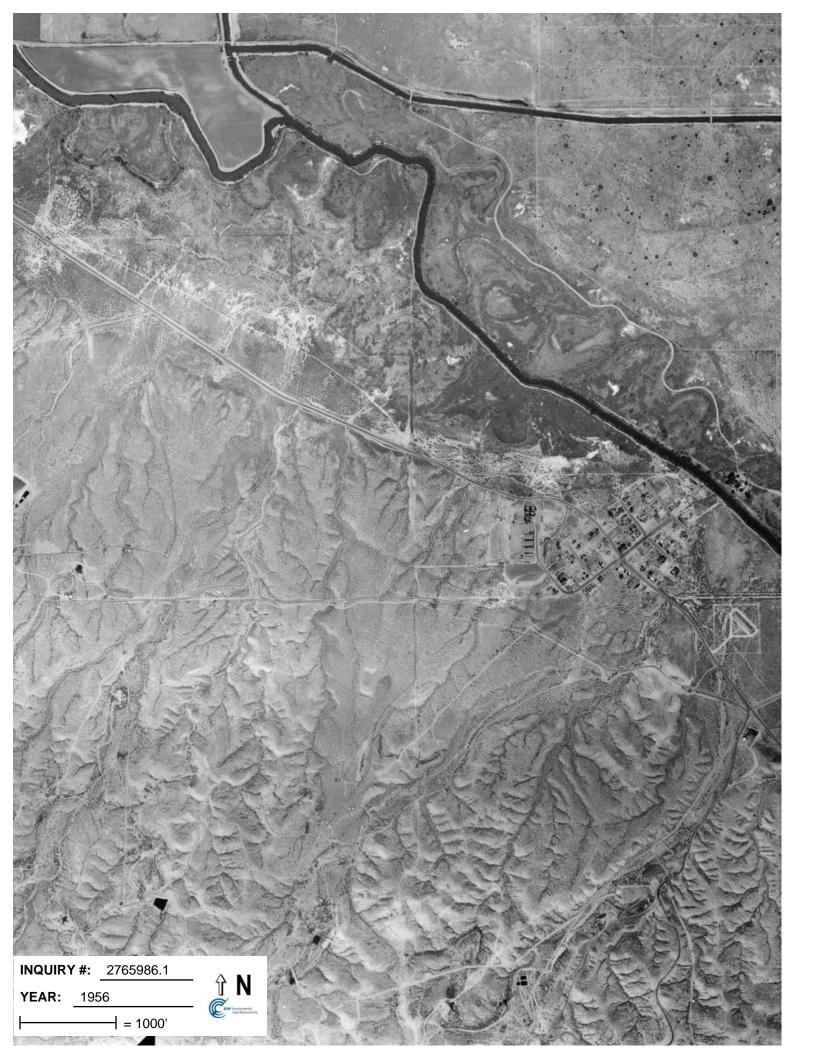












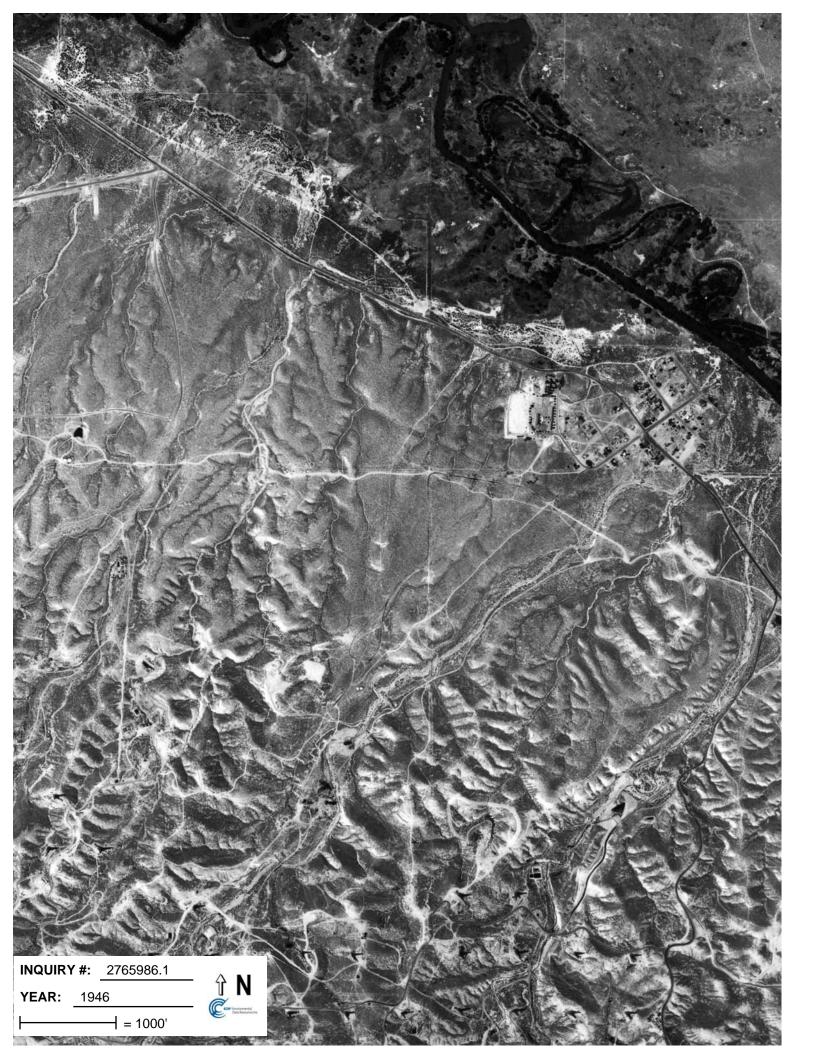














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Date EDR Searched Historical Sources:

Aerial Photography May 12, 2010

Target Property:

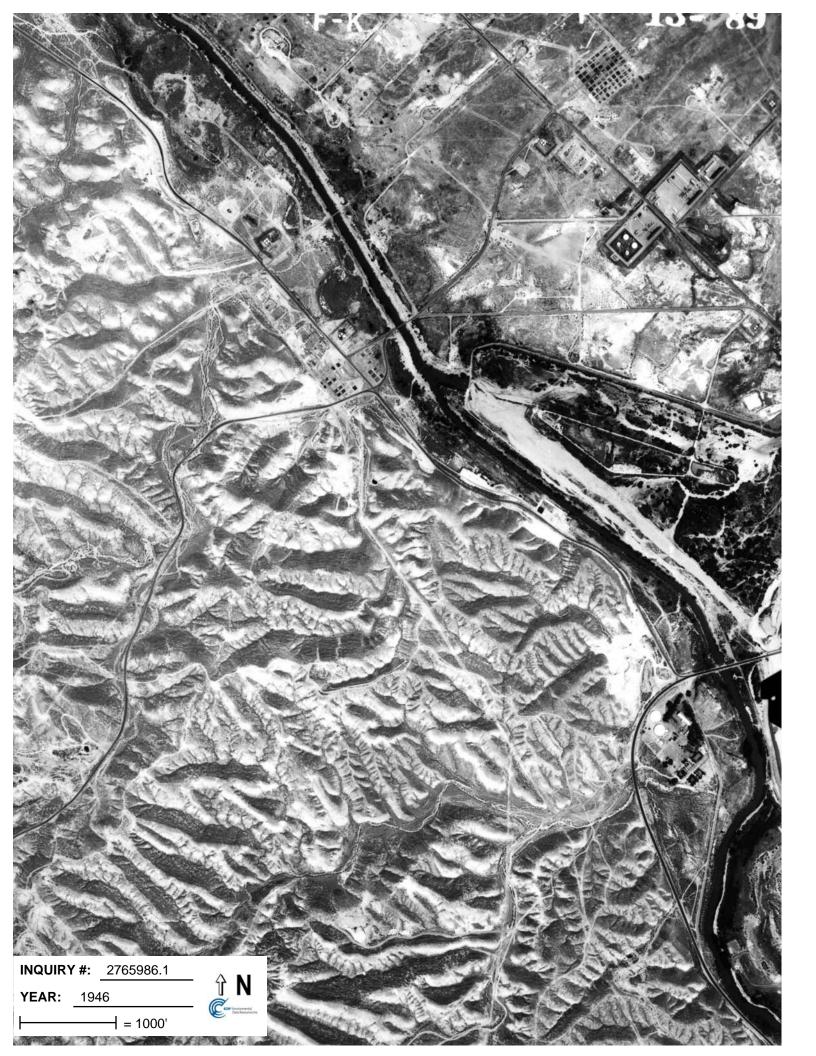
Dairy /Adohr Rd

Tupman, CA 93276

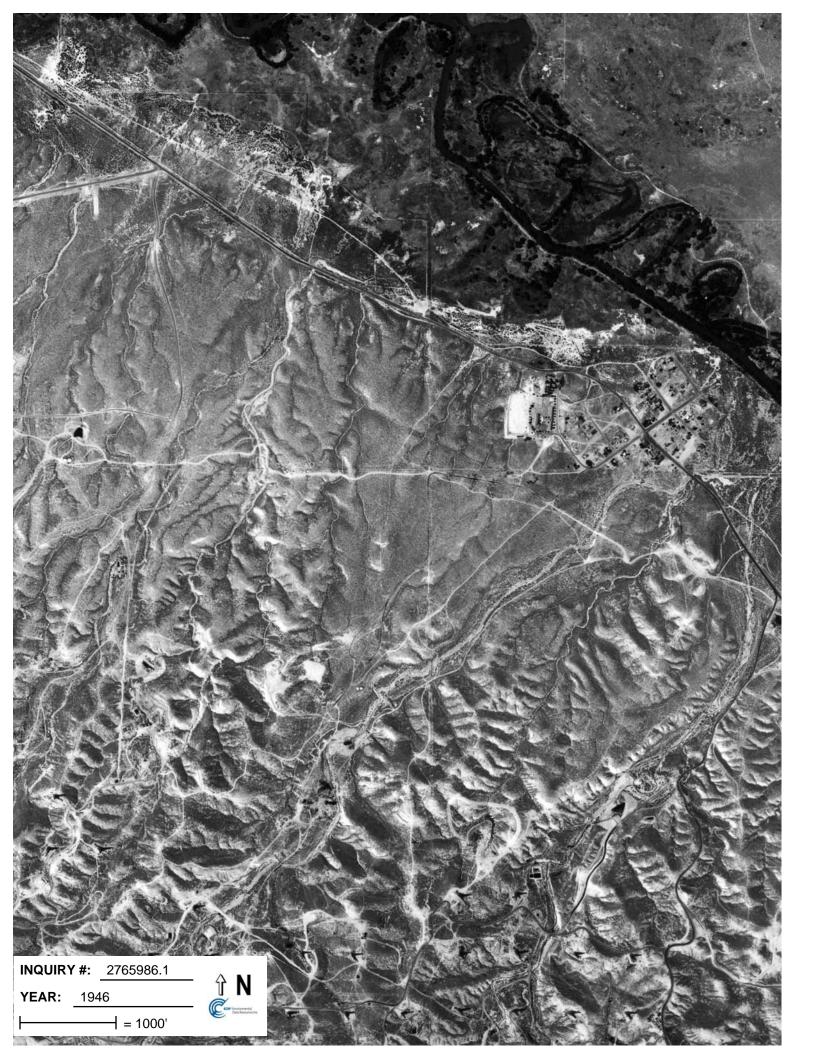
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1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	Nasa
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	Nasa
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	Nasa
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	Nasa

Year 1984	Scale Aerial Photograph. Scale: 1"=1000'	Details Flight Year: 1984	Source USGS
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
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1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
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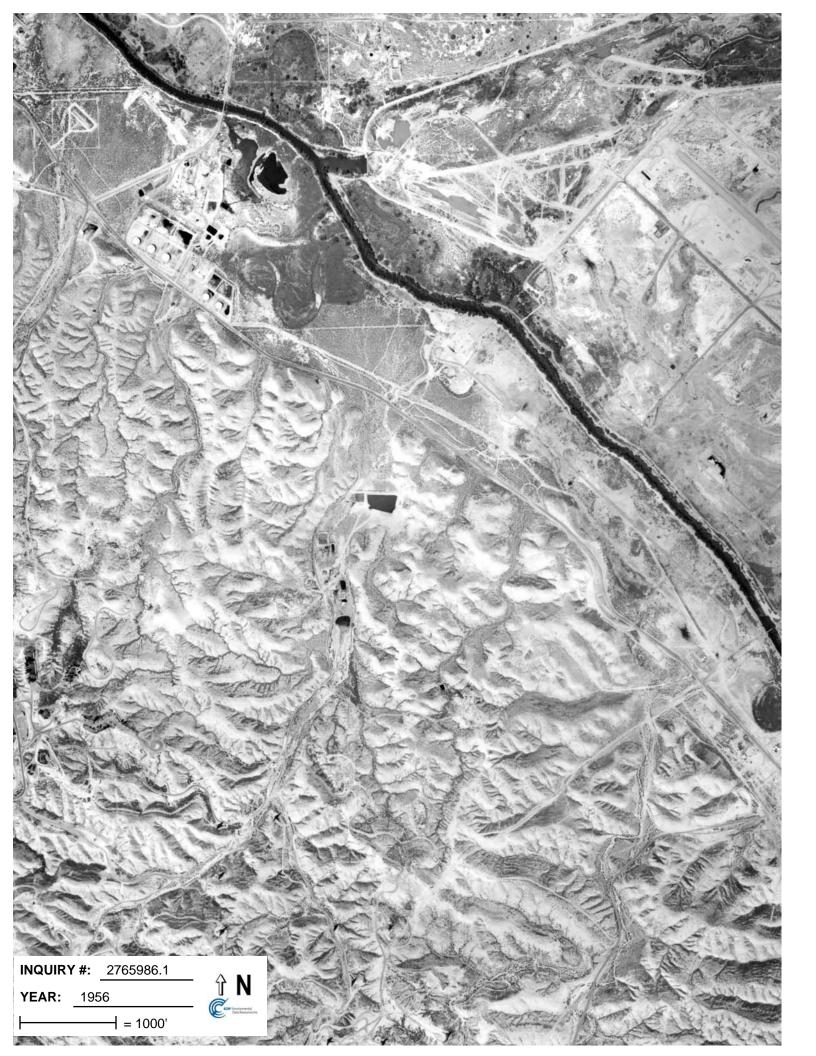


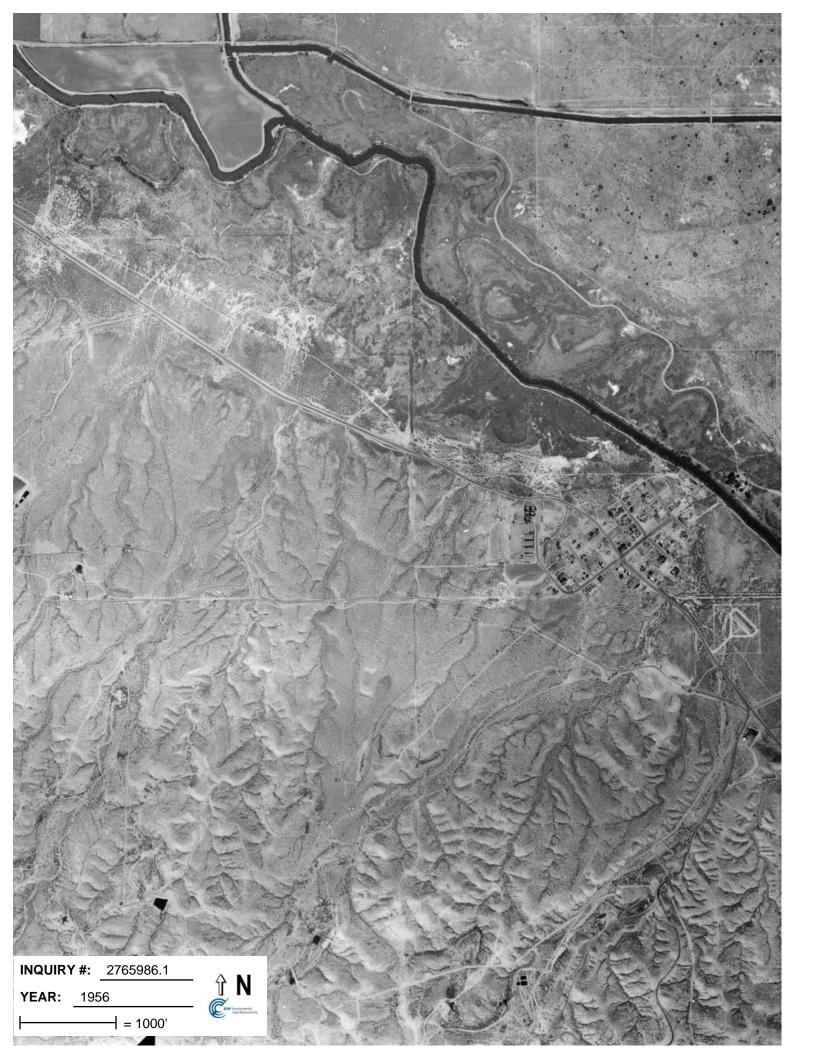








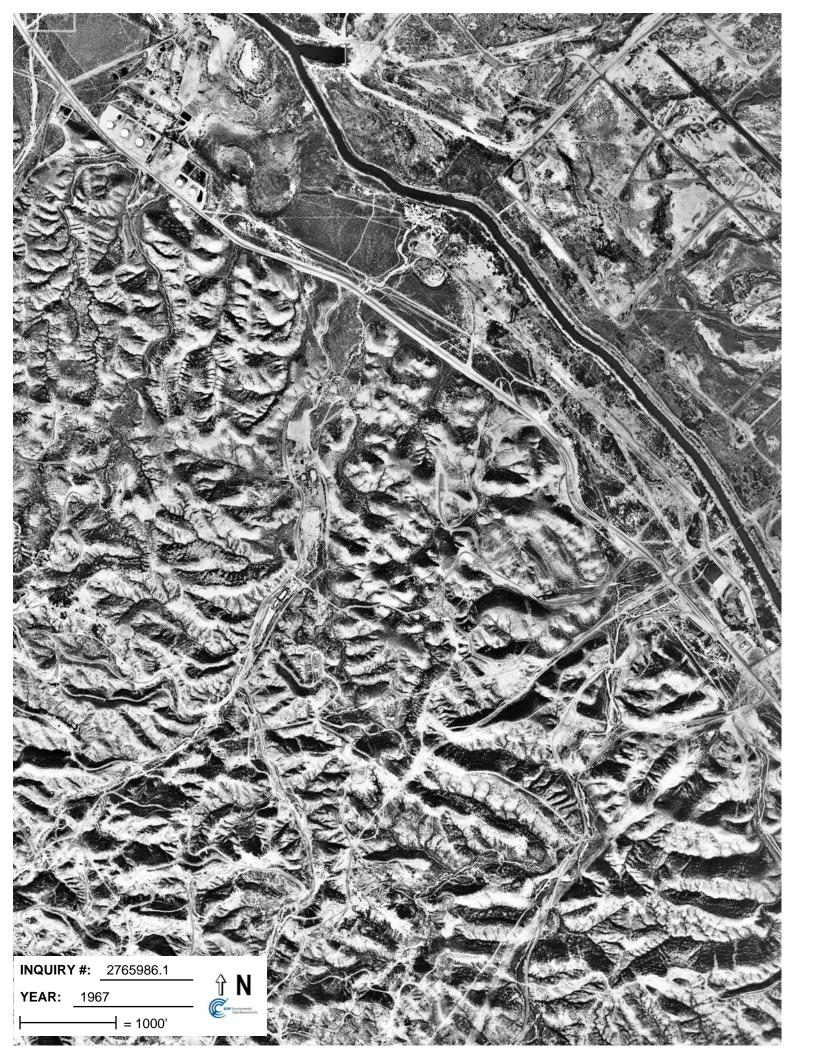


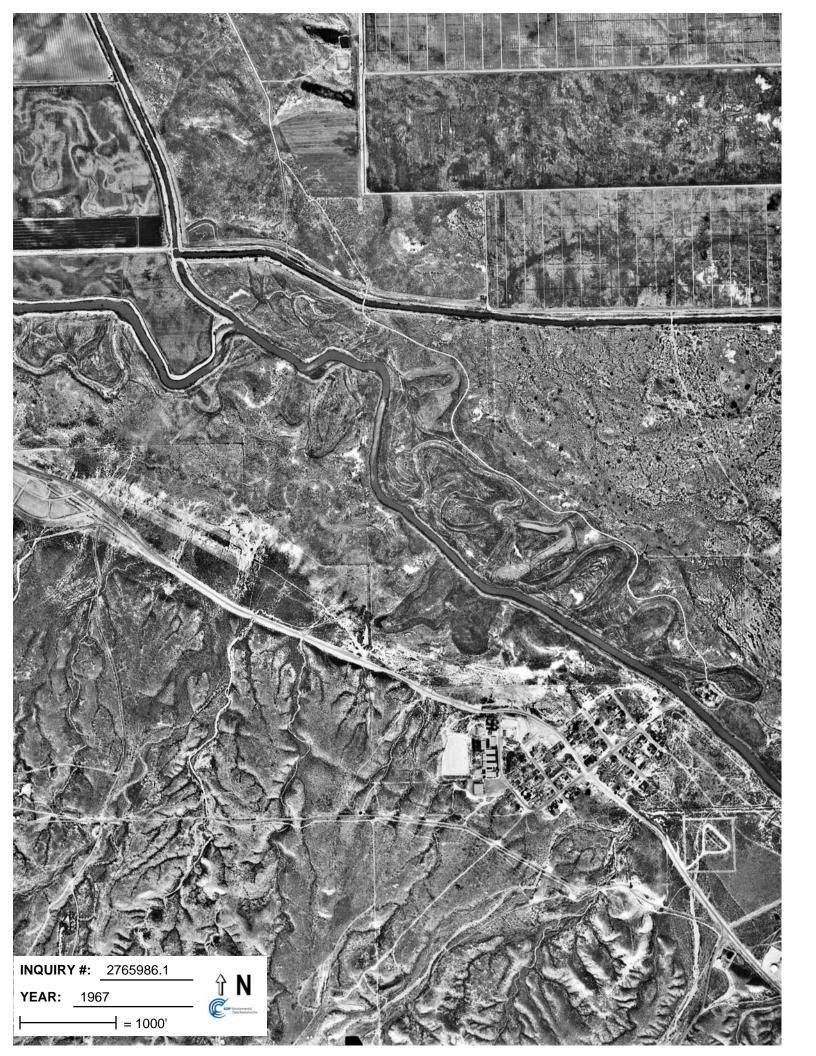






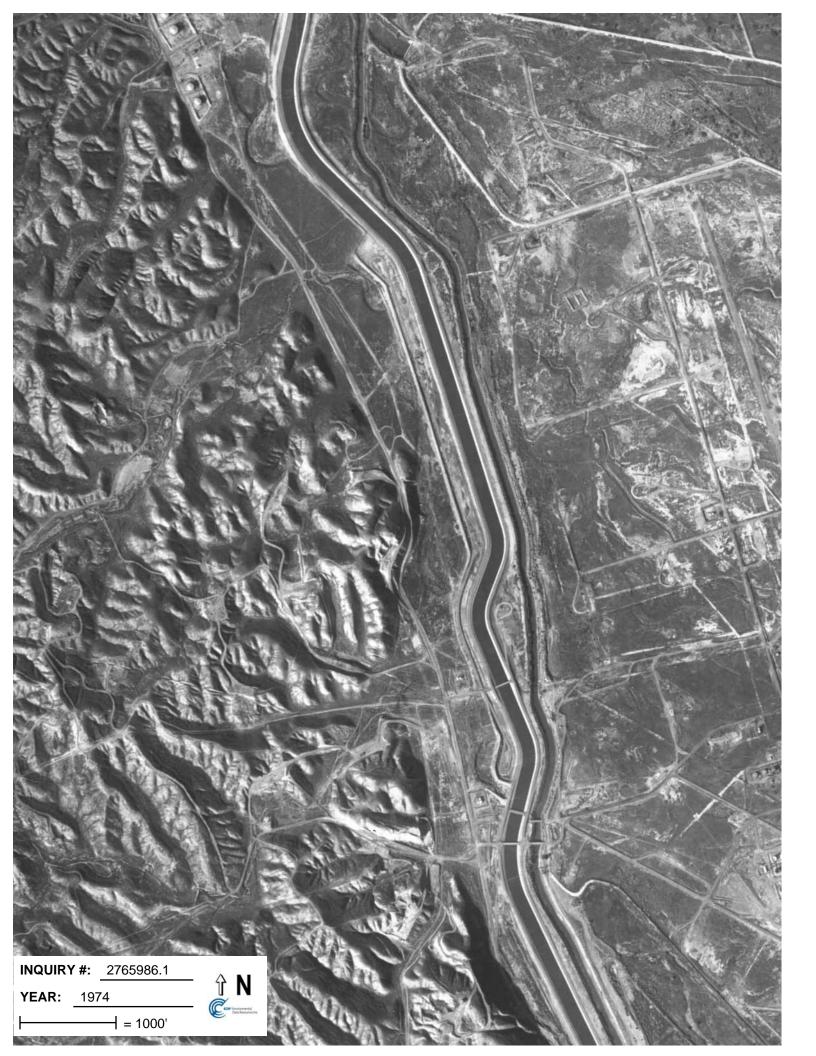








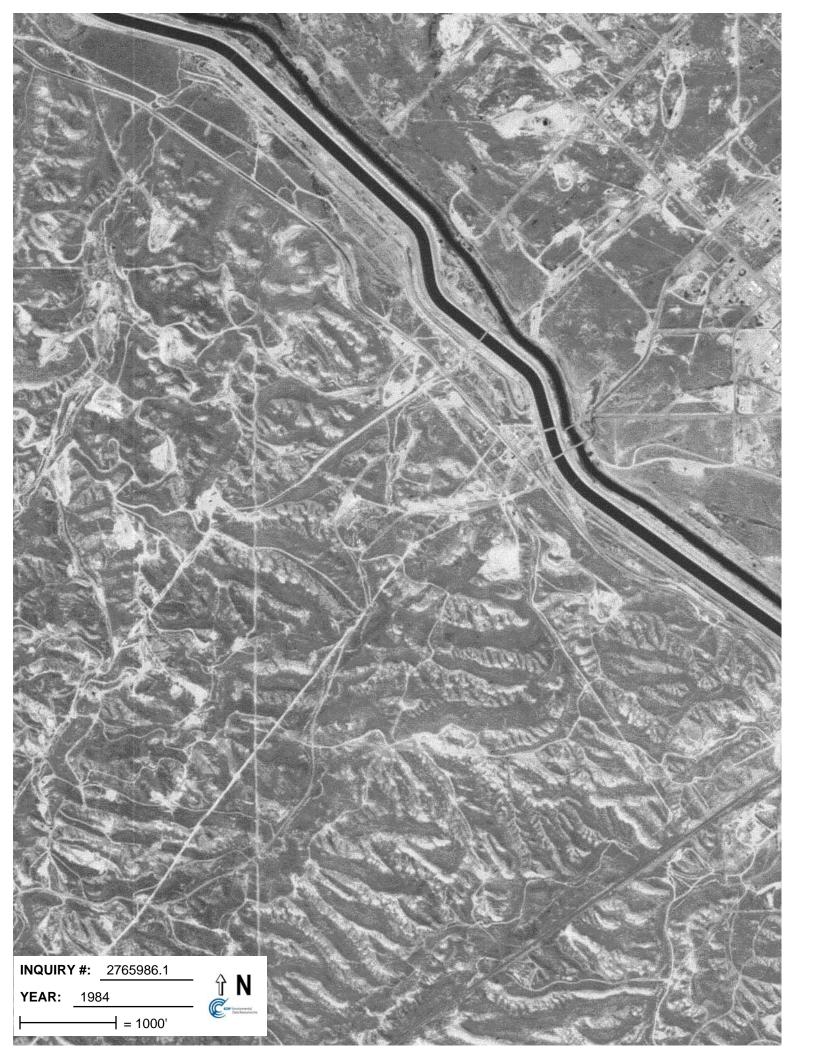




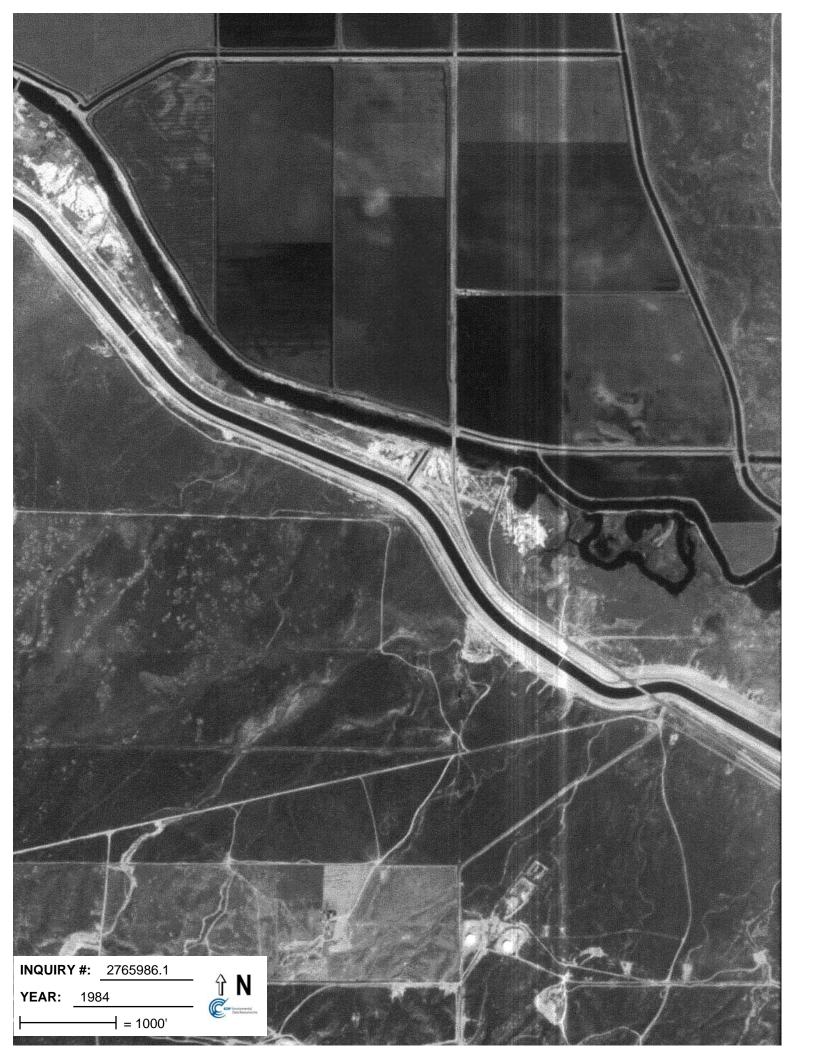






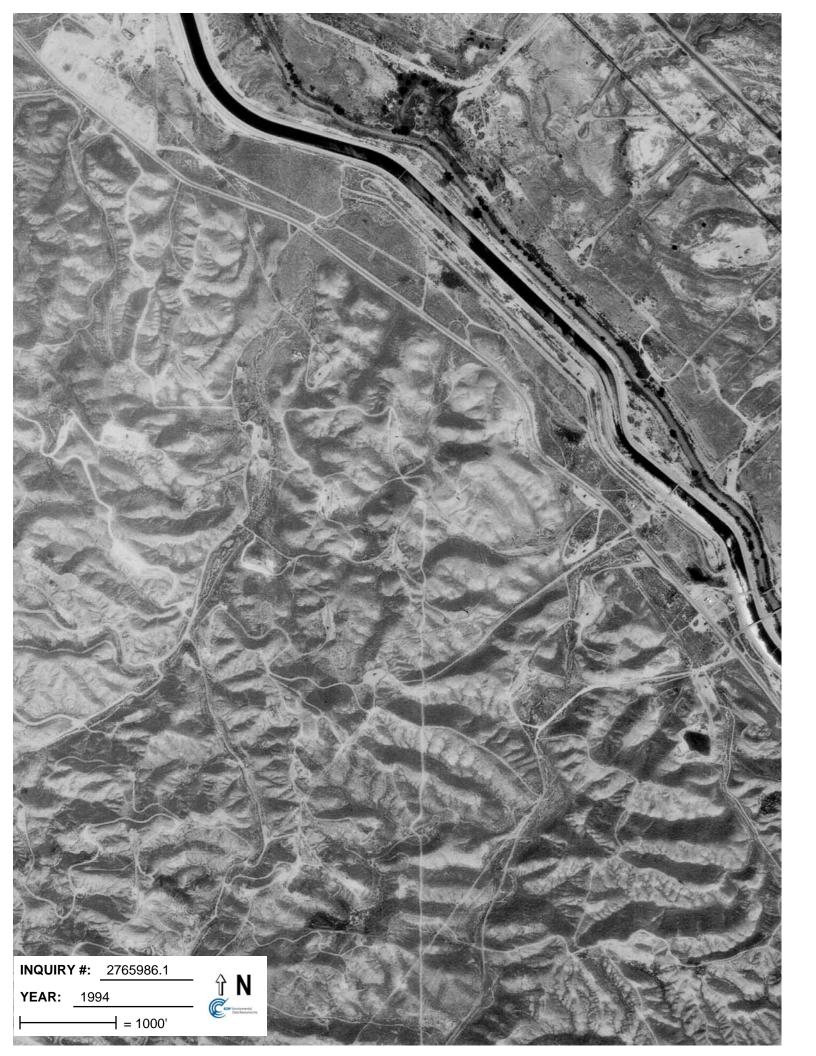










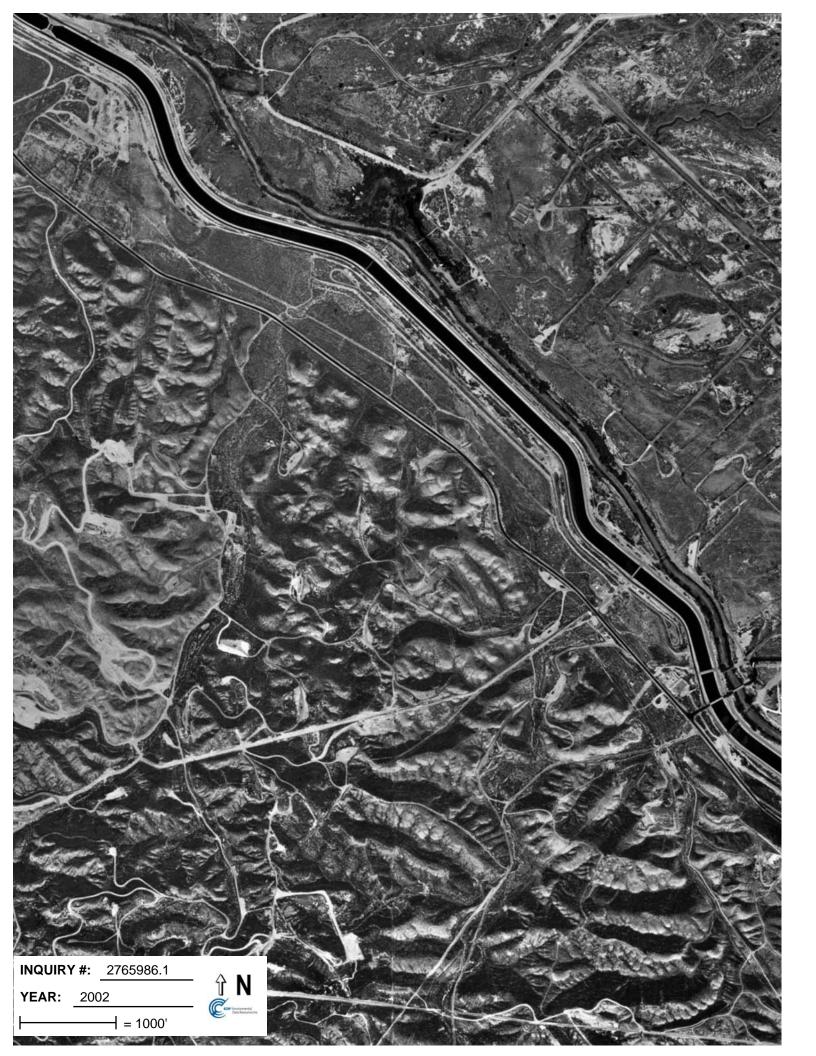
















HECA

Dairy/Adohr Rd Tupman, CA 93276

Inquiry Number: 2764890.1

May 13, 2010

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

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Aerial Photography May 13, 2010

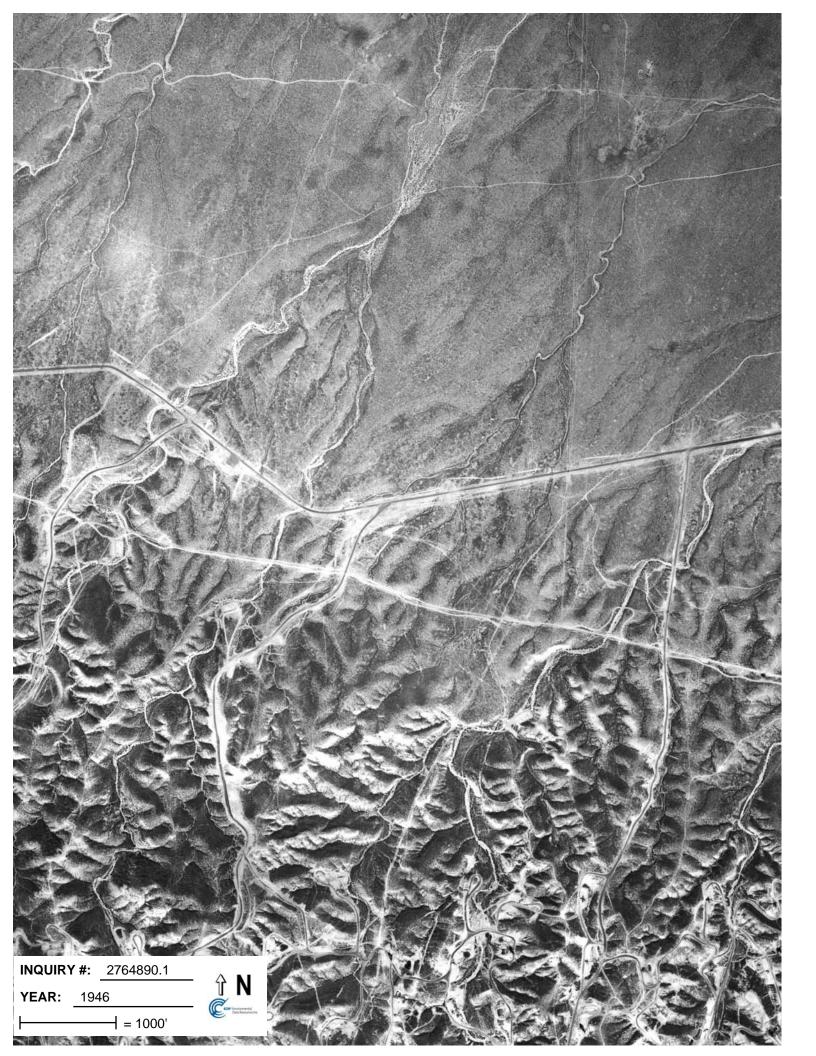
Target Property:

Dairy/Adohr Rd

Tupman, CA 93276

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
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1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western

Year 1974	Scale Aerial Photograph. Scale: 1"=1000'	Details Flight Year: 1974	Source Nasa
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	Nasa
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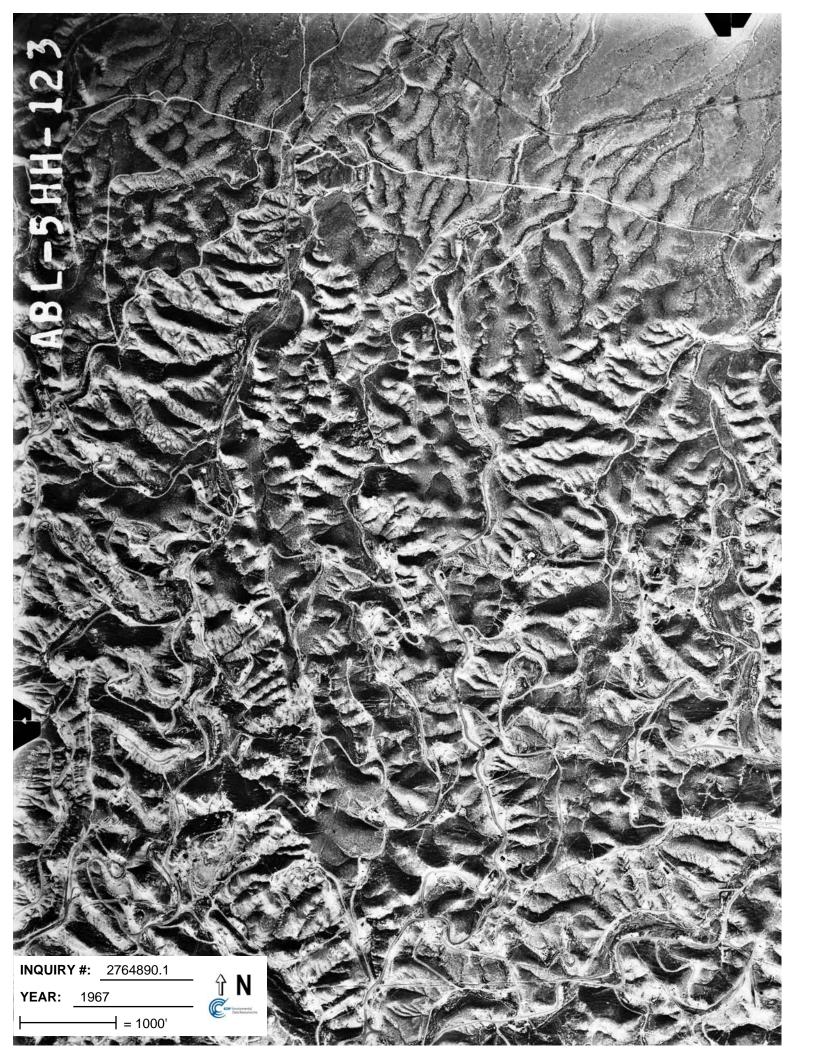














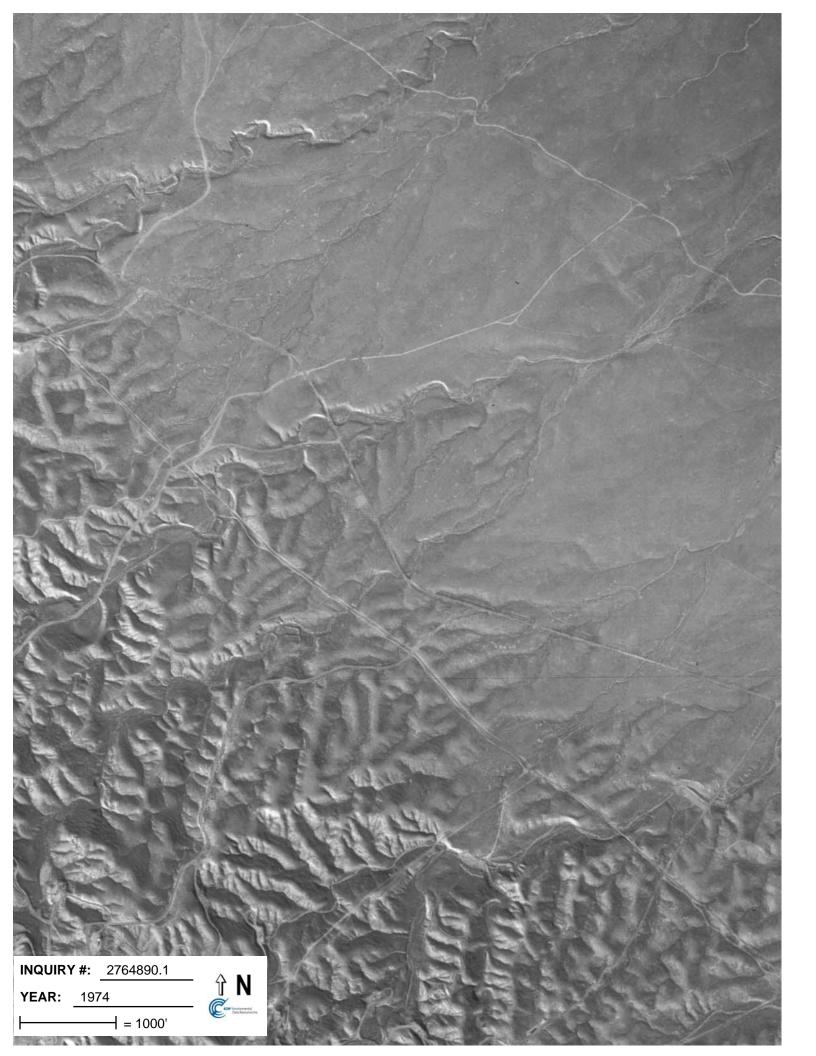












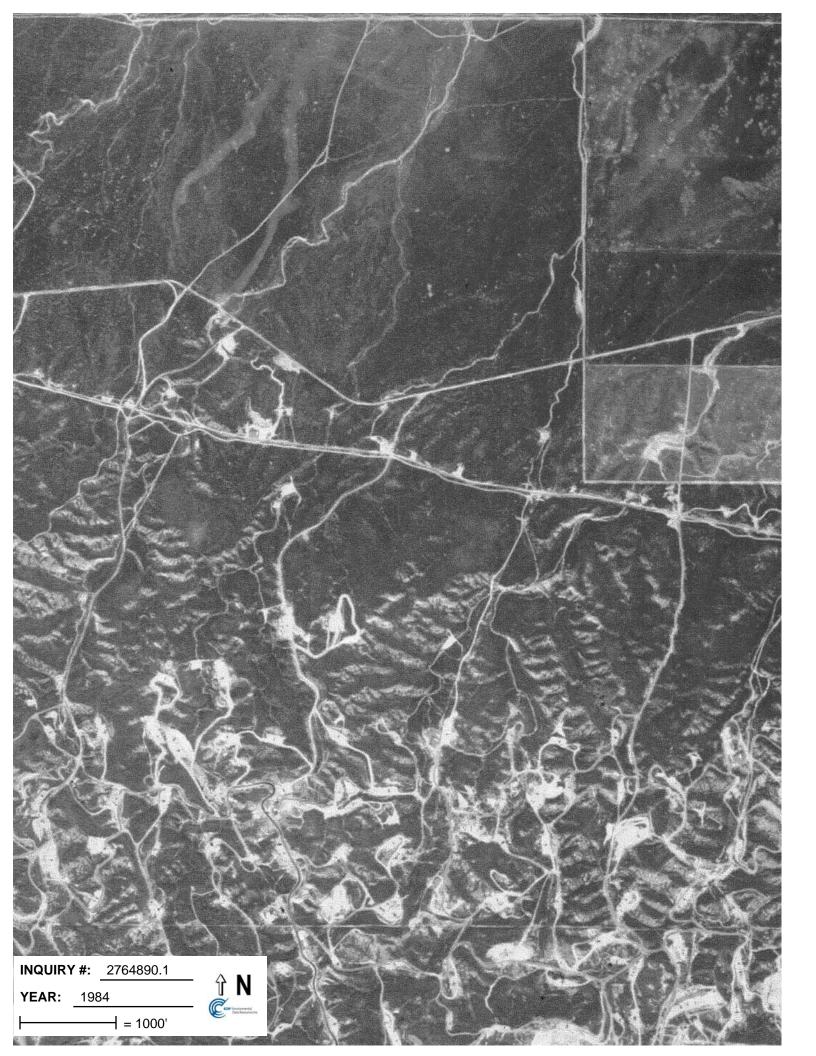








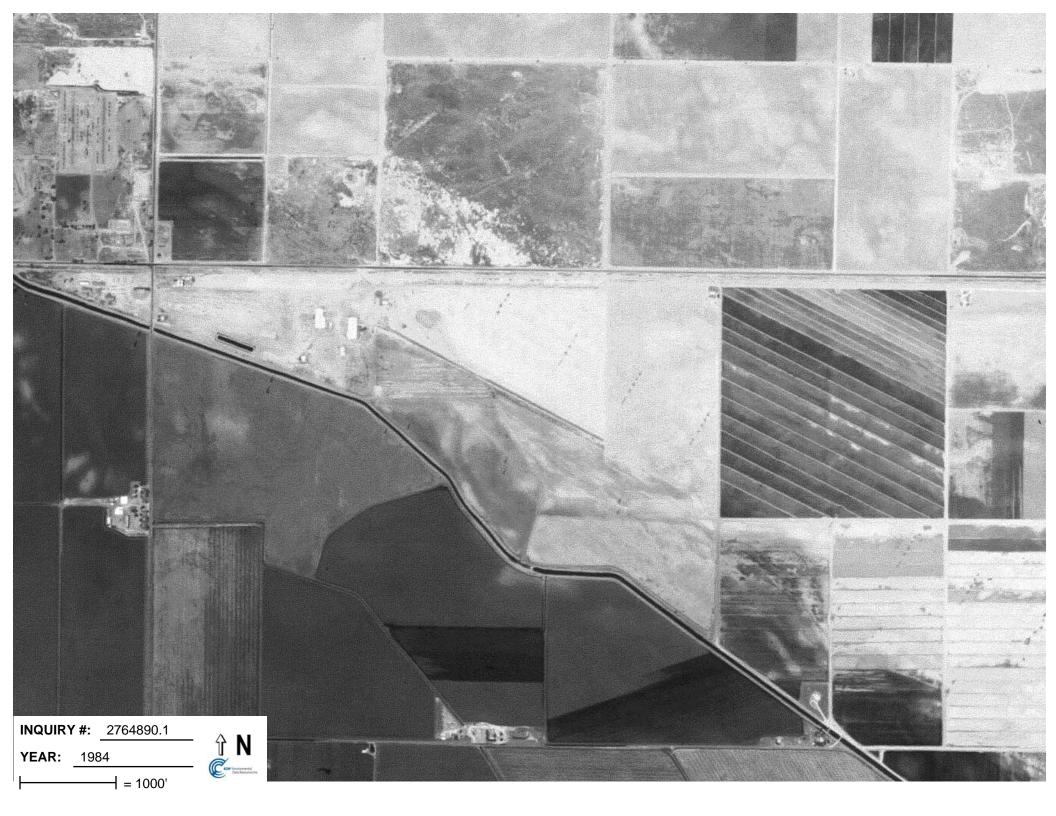


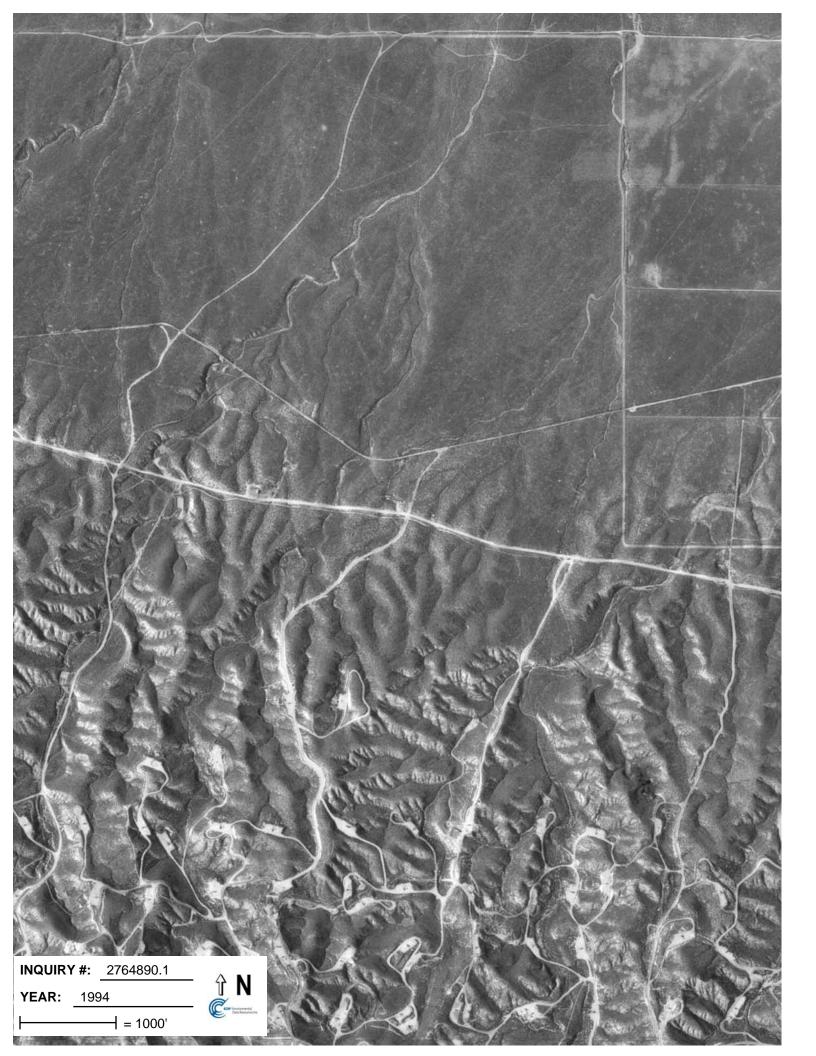








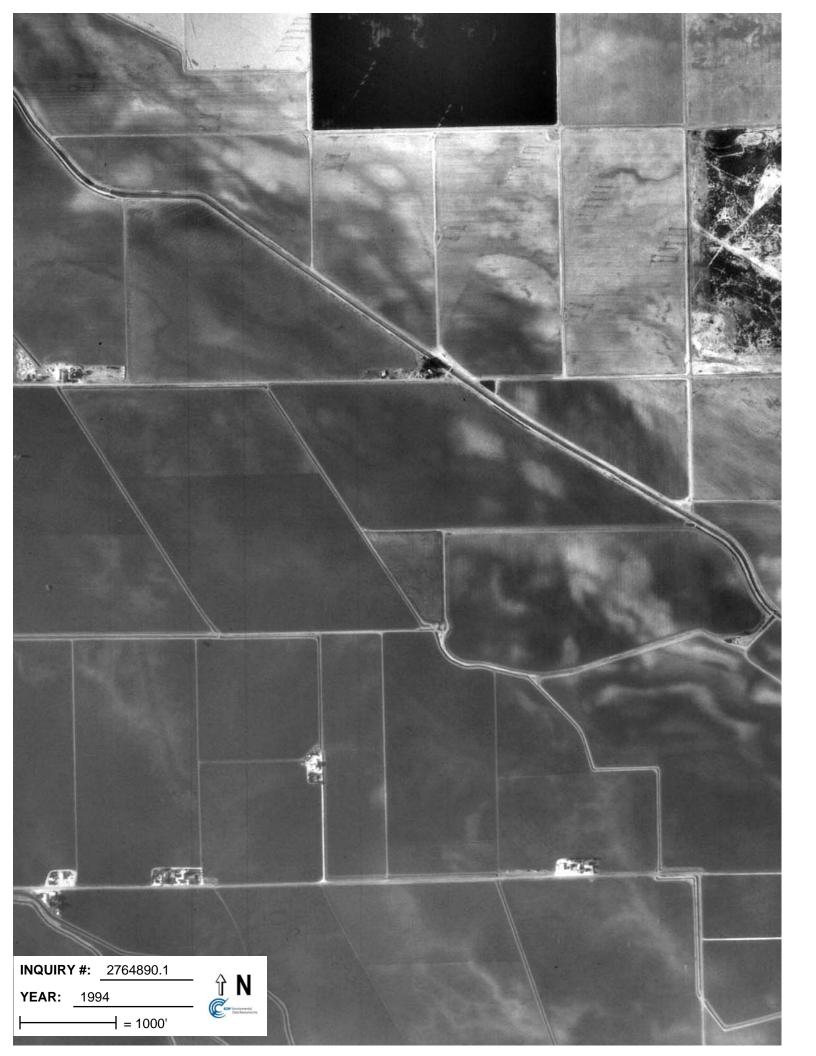


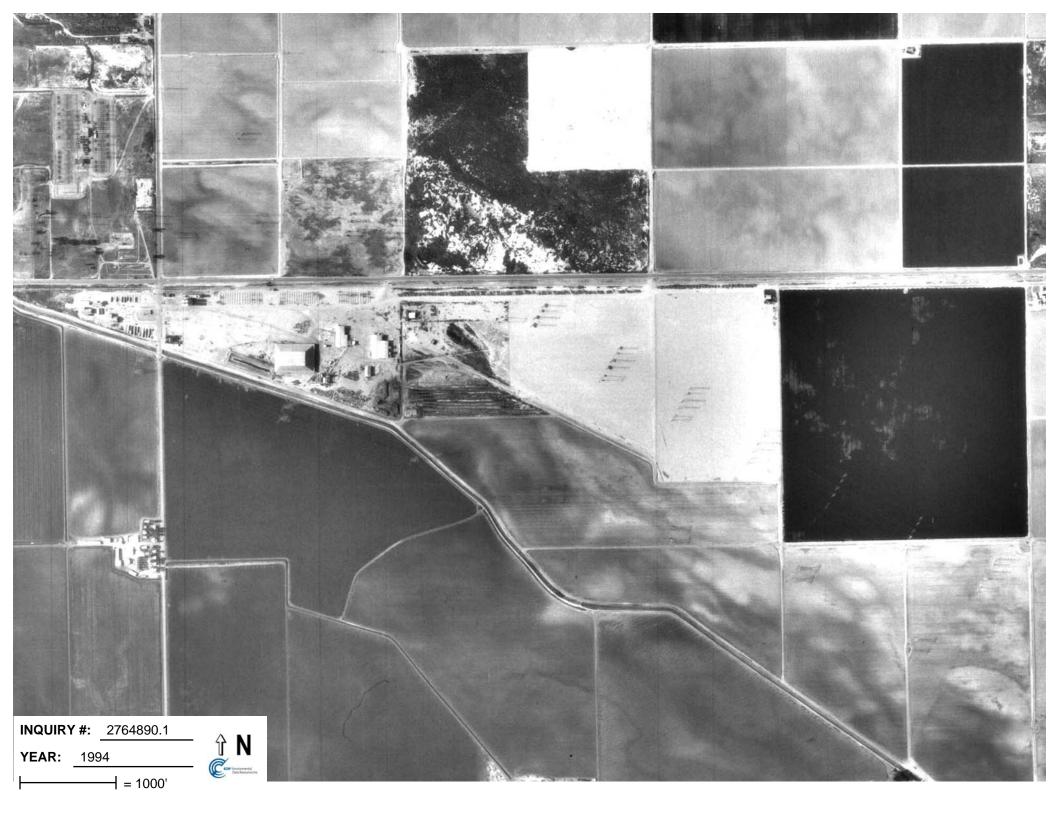


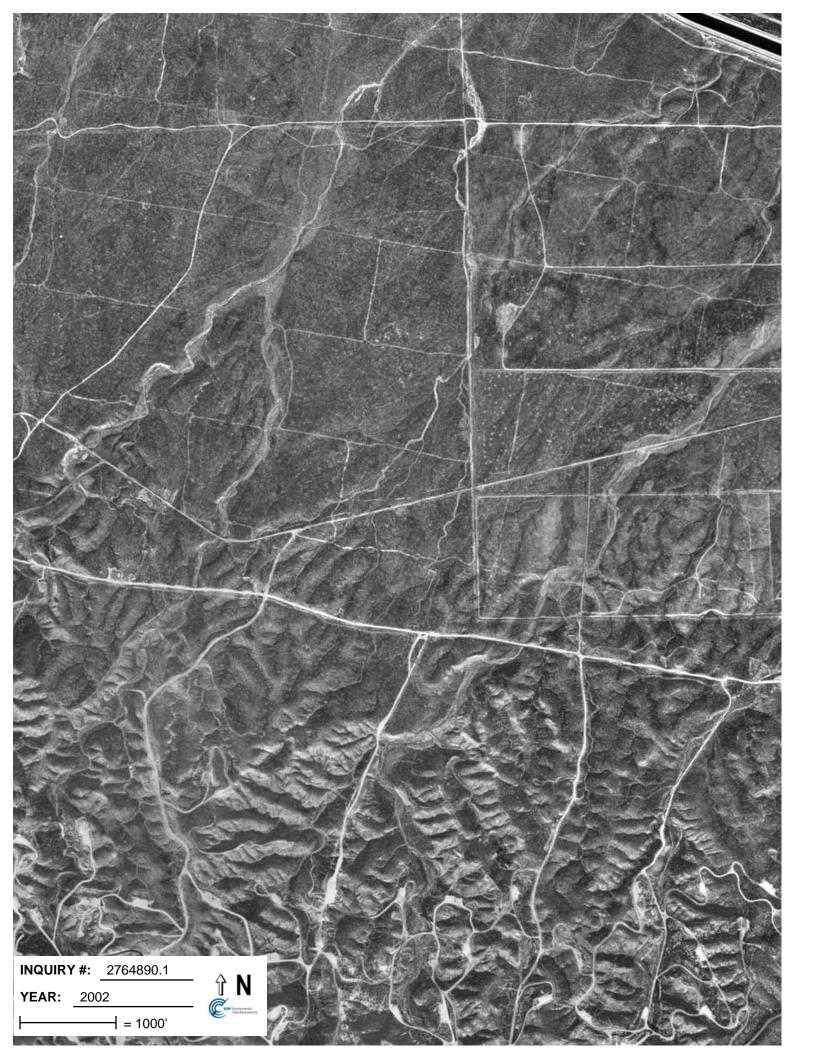








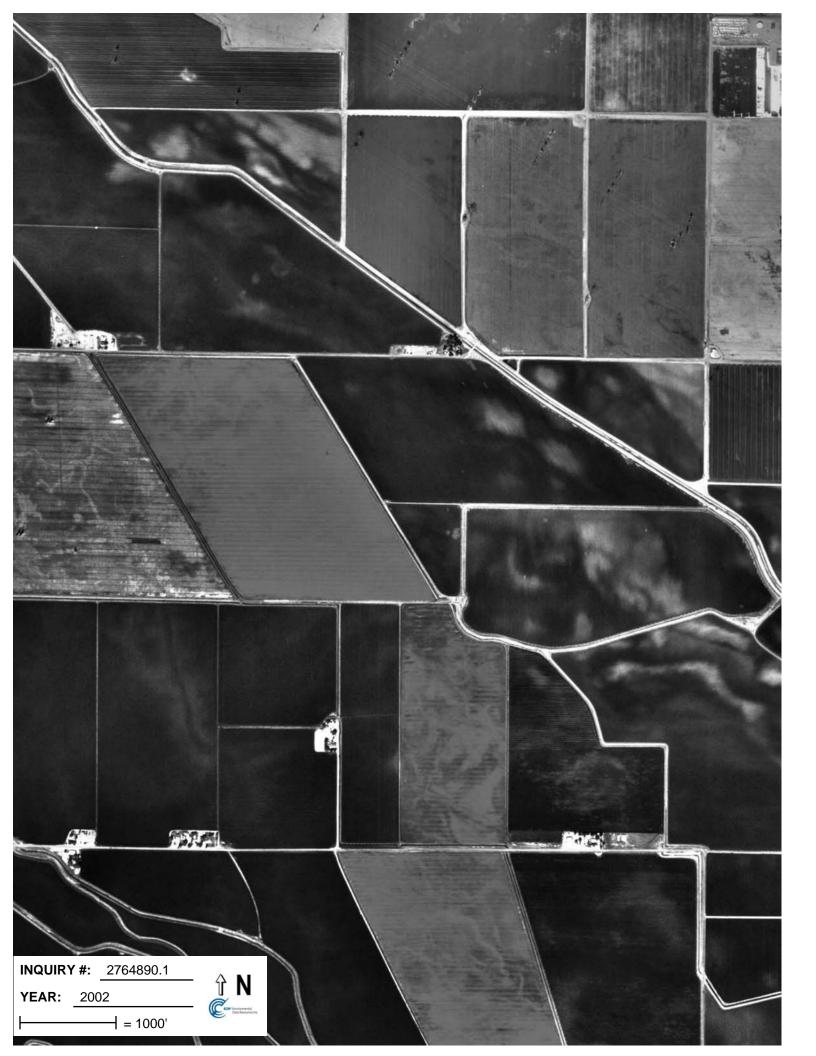














ATTACHMENT C
SANBORN FIRE INSURANCE MAP SEARCH

HECA

Dairy Road/Adohr Road Tupman, CA 93276

Inquiry Number: 2755383.3

April 27, 2010

Certified Sanborn® Map Report



Certified Sanborn® Map Report

4/27/10

Site Name: Client Name:

HECA URS Corporation
Dairy Road/Adohr Road One Montgomery Street

Tupman, CA 93276 San Francisco, CA 94104-0000

EDR Inquiry # 2755383.3 Contact: Kali Futnani



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Certified Sanborn Results:

Site Name: HECA

Address: Dairy Road/Adohr Road City, State, Zip: Tupman, CA 93276

Cross Street:

P.O. # 28067571.800041

Project: HECA

Certification # 280E-4FFD-886C



Sanborn® Library search results Certification # 280E-4FFD-886C

UNMAPPED PROPERTY

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▼ EDR Private Collection

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HECA

Dairy Road/Adohr Road Buttonwillow, CA 93206

Inquiry Number: 2755337.3

April 27, 2010

Certified Sanborn® Map Report



Certified Sanborn® Map Report

4/27/10

Site Name: Client Name:

HECA URS Corporation
Dairy Road/Adohr Road One Montgomery

Dairy Road/Adohr Road One Montgomery Street
Buttonwillow, CA 93206 San Francisco, CA 94104-0000

EDR Inquiry # 2755337.3 Contact: Kali_futnani



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Site Name: HECA

Address: Dairy Road/Adohr Road
City, State, Zip: Buttonwillow, CA 93206

Cross Street:

P.O. # 28067571.800041

Project: HECA

Certification # B907-481B-B008



Sanborn® Library search results Certification # B907-481B-B008

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▼ EDR Private Collection

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Dairy Road/Adohr Road Buttonwillow, CA 93206

Inquiry Number: 2755371.3

April 26, 2010

Certified Sanborn® Map Report



Certified Sanborn® Map Report

4/26/10

Site Name: Client Name:

HECA URS Corporation
Dairy Road/Adohr Road One Montgomery

Dairy Road/Adohr Road One Montgomery Street
Buttonwillow, CA 93206 San Francisco, CA 94104-0000

EDR Inquiry # 2755371.3 Contact: Kali Futnani



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by URS Corporation were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: HECA

Address: Dairy Road/Adohr Road
City, State, Zip: Buttonwillow, CA 93206

Cross Street:

P.O. # 28067571.800041

Project: HECA

Certification # D847-42C0-A70C



Sanborn® Library search results Certification # D847-42C0-A70C

UNMAPPED PROPERTY

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✓ Library of Congress

✓ University Publications of America

▼ EDR Private Collection

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